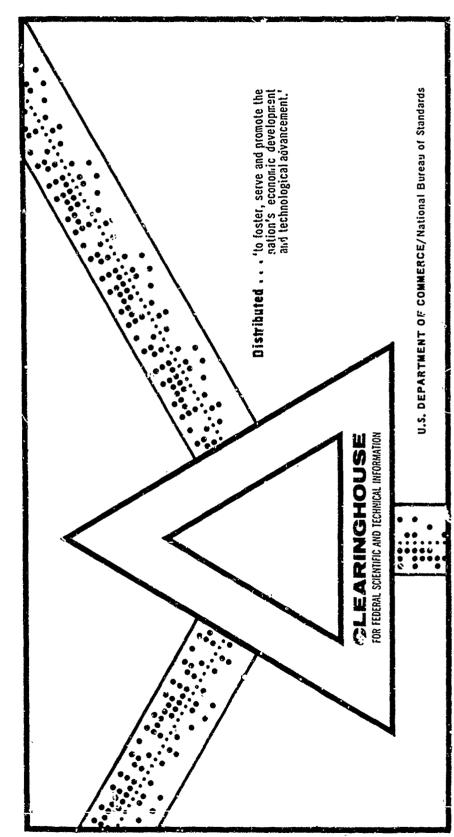
ANGULAR SCATTERING FUNCTIONS FOR SPHERICAL WATER DROPLETS H. B. Howell

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ABSTRACT

Tables and graphs are presented which give the angular distribution of scattered light from spherical particles having a refractive index 1.33 (e.g., water droplets in air). The 50 particle sizes include the size parameters 1(1)20, 22(2)50, 55(5)125, and the scattering angles $0^{\circ}(0.2^{\circ})180^{\circ}$ in the graphs and $0^{\circ}(2^{\circ})180^{\circ}$ in the tables. The computational procedure is given in detail, and the FOPTRAN programs are listed.

Pre ELEM STATUS

This report completes one phase of the problem; work on other aspects of the problem is continuing.

AUTHORIZATION

NRL Problem No. A63-14 Project No. A37549/652/69-R004-02-01

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ANGULAR SCATTERING FUNCTIONS FOR SPHERICAL WATER DROPLETS

INTRODUCTION

This report presents tables and graphs which describe the angular distribution of electromagnetic radiation scattered from spherical particles of refractive index 1.33 (e.g., water droplets in air). For incident light of wavelength 0.63 μ m (e.g., He-Ne laser) the range of particle size (radius) covered here is approximately 0.1 to 12.5 μ m. Droplets in this range (and larger) are commonly found in natural haze, fog, and clouds.

The data presented here are a portion of the results of extensive calculations made at NRL during an investigation (1) of the theoretical aspects of indirect, optical measurement of parameters describing the microstructure of fog and clouds. Some of the data presented here can be found in earlier works,* but the combination of (a) size range, (b) resolution in scattering angle, and (c) inclusion of computer program listings are not, to the knowledge of the author, to be found elsewhere.

Since each investigation requiring data on 1' ht scattering usually involves an index of refraction, a particle size range, or an angular interval not covered by published data, it seemed practical to limat the scope of the fabruated data and graphs and to supplement this with the listings of rather simple computer programs, in FORTRAN, by which more detailed computations could be made for any particular application.

The purposes of this report are to provide the reader with a simplified but moderately detailed view of the nature of light scattering from spherical particles, and to present a convenient means by which further details can be obtained.

THEORY

If a beam of light, or other electromagnetic radiation, of wavelength λ and flux density I_o (e.g., $\mu W/cm^2$) is incident on a spherical particle of radius r and refractive index m, then the total flux scattered over all directions is

$$E = I_0 C(m,\lambda,r) = I_0 Q(m,\lambda,r) \pi r^2 \mu^{\overline{w}}$$
,

where C is the scattering cross section of the particle, at wavelength λ and Q, the scattering efficiency factor, is the ratio of the scattering cross section to the geometric cross section (πr^2) of the scattering particle. If the incident beam is polarized with the electric vector perpendicular to the plane of scattering (that plane which includes both the incident and emergent propagation vectors), the intensity $I(\theta)$ in μ W/sr scattered at an angle θ as measured from the direction of the incident beam, is

$$I(\theta) = \frac{\lambda^2}{4\pi^2} I_0 I_1(\theta) . \tag{1}$$

^{*}See Ref. 2, pp. 167-171, for a description of published data.

where $i_1(\theta)$ is the Mie (3) intensity function for the perpendicular component of polarization. For incident light polarized with the electric vector parallel to the scattering plane, Eq. (1) would contain $i_2(\theta)$, the Mie intensity function for the parallel component of polarization. In the case of incident natural (unpolarized) light, the expression for $I(\theta)$ becomes

$$I(\theta) = \frac{\lambda^2}{8\pi^2} [i_1(\theta) + i_2(\theta)]$$
 (2)

For a specified index of refraction, the scattering characteristics of a given spherical particle depend on the size of the particle relative to the incident wavelength. This is expressed as the size parameter $x = 2\pi r/\lambda$. In the following section, it will be seen that the parameters x and y (= mx) are the arguments of the functions from which i_1 , i_2 , and Q are eventually derived.

For a complete discussion of the Mie theory of light scattering, one should consult a text such as those given in Refs. 2, 4, and 5.

COMPUTATIONAL PROCEDURE

The basic set of coefficients from which i_1 , i_2 , and Q are obtained are

$$a_n = \frac{\Psi_n'(y)\Psi_n(x) - m\Psi_n'(y)\Psi_n'(x)}{\Psi_n'(y)\zeta_n(x) - m\Psi_n(y)\zeta_n'(x)}$$
(3a)

and

$$b_{n} = \frac{m \Psi_{n}'(y) \Psi_{n}(x) - \Psi_{n}(y) \Psi_{n}'(x)}{m \Psi_{n}'(y) \zeta_{n}(x) - \Psi_{n}(y) \zeta_{n}'(x)},$$
 (3b)

where V_n and ζ_n are Ricatti-Bessel functions (after the notation used by van de Hulst, Ref. 2). Making the substitution $\Psi_n = S_n$ and $\zeta_n = S_n + iC_n$ (where $i = \sqrt{-1}$), the expressions for a_n and b_n become

$$n_n = \frac{S'_n(y) S_n(x) - m S_n(y) S'_n(x)}{S'_n(y) [S_n(x) + iC_n(x)] - m S_n(y) [S'_n(x) + iC'_n(x)]}$$
(4a)

and

$$b_n = \frac{m S_n'(y) S_n(x) - S_n(y) S_n'(x)}{m S_n'(y) [S_n(x) + iC_n(x)] - S_n(y) [S_n'(x) + iC_n'(x)]}$$
(4b)

The functions C_n and S_n in terms of fractional-order Bessel functions of the first kind are

$$C_n(x) = (-1)^n \left(\frac{\pi x}{2}\right)^{1/2} J_{-n-(1/2)}(x)$$

and

English Sugar Sugar

$$S_n(x) = \left(\frac{\pi \pi}{2}\right)^{1/2} J_{n+\{-1,r,2\}}(x)$$
.

Dividing both numerator and denominator of Eqs. (4a) and (4b) by the product $S_n(x)$ $S_n(y)$, and using the definitions

$${\rm SPSX}_{\rm n} = S_n'(x)/S_n(x) \;, \quad {\rm SPSY}_{\rm n} = S_n'(y)/S_n(y) \;, \label{eq:spsxn}$$

$$CNSN_n = C_n(x)/S_n(x)$$
, $CPCX_n = C'_n(x)/C_n(x)$,

with some rearrangement, we derive

$$a_n = \left\{ 1 + \left[\frac{\text{CNSN}_n(\text{SPSY}_n - m \text{CPCX}_n)}{\text{SPSY}_n - m \text{SPSX}_n} \right] \right\}^{-1}$$
 (5a)

and

$$b_n = \left\{ 1 + \left[\frac{\text{CNSN}_n (\text{m SPSY}_n - \text{CPCX}_n)}{\text{m SPSY}_n - \text{SPSX}_n} \right] \right\}^{-1}.$$
 (5b)

The ratios $(CNSN_n, CPCX_n, SPSX_n, SPSY_n)$ were computed for n = 1, 2, 3, ..., N using upward recurrence relations which follow from the well-known recurrence formula for Bessel functions (6),

$$J_{\nu-1}(x) + J_{\nu+1}(x) = \frac{2\nu}{x} J_{\nu}(x)$$
.

First, let

$$Q_{n} = J_{n-(1/2)}(y)/J_{n+(1/2)}(y)$$
,

$$R_n = J_{n-(1/2)}(x)/J_{n+(1/2)}(x)$$
,

and

$$U_n = J_{-n+(1/2)}(x)/J_{-n-(1/2)}(x)$$
.

Then, for n = 0,

$$Q_0 = \cos y / \sin y$$
,

$$R_0 = \cos x / \sin x$$
,

$$U_0 = R_0^{-1} \quad , \quad$$

and

$$CNSN_0 = R_0$$
;

and for n = 1, 2, 3, ..., N,

$$Q_{n} = \left(\frac{2n+1}{y} - Q_{n-1}\right)^{-1}$$
.

$$R_n = \left(\frac{2n+1}{y} - Q_{n-1}\right)^{-1} ,$$

$$U_n = \left(\frac{2n+1}{x} - U_{n-1} \right)^{-1}$$
,

and

$$\mathrm{CNSN}_{\mathrm{n}} = -\mathrm{CNSN}_{\mathrm{n}-1} \ R_n/U_n \ , \quad \mathrm{SPSY}_{\mathrm{n}} = Q_n - n/y \ ,$$

$$CPCX_n = -U_n - n/x$$
, $SPSX_n = R_n - n/x$.

The termination value for the index (n = N) depends on the size parameter, as illustrated in Fig. 1. The value of N was determined by the magnitudes of the real and imaginary parts of the current a_n and b_n . If the maxima of the quantities $|Re(a_n)|$, $|Im(a_n)|$, $|Re(b_n)|$, and $|Im(b_n)|$ were less than a specified value, say 10^{-9} , the computation of a_n and b_n was terminated. The degree of error resulting in truncating the infinite series defining i_1 , i_2 , and 0 according to the test given above was not significant (i.e., it did not affect the first five significant figures of i_1 or i_2 , or the first six decimal places of 0).

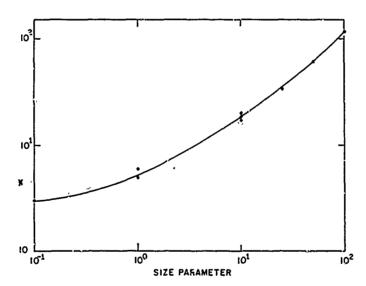


Fig. 1 - The number N of sets of Mie coefficients computed as a function of size parameter x

The generation of Bessel functions of the first kind by upward recurrence is known to be error-unstable for orders much larger than the argument. A study was made comparing upward and downward recurrence methods of generating the necessary Bessel function ratios involved in the computation of a_n and b_n , and it showed that the simpler, upward recurrence technique produced no significant errors in i_1 , i_2 , or Q for real indexes of refraction and for size parameters in the range $0.2 \le x \le 750$. This was because the errors introduced into a_n and b_n by upward recurrence became significant only when the magnitudes of a_n and b_n became-very small, and thus contributed very little to the end result.

The scattering efficiency factor Q is obtained from

$$Q = \frac{4}{x^2} \sum_{n=1}^{\infty} \left(n + \frac{1}{2} \right) \left(|a_n|^2 + |b_n|^2 \right) .$$

The exact value of Q would require an infinite number of terms, but the truncation of the series according to the criterion described above approximated the value of Q well enough that further computation failed to show any change in the first six decimal places.

For speedier computation of i_1 and i_2 a set of coefficients

$${A_n \brace B_n} = \frac{2n+1}{n(n+1)} \ {a_n \brace b_n}$$

was used. Then

$$i_1(\theta) = \left| \sum_{n=1}^{\infty} \left[A_n \pi_n(\cos \theta) + B_n \tau_n(\cos \theta) \right] \right|^2 , \qquad (6a)$$

$$i_2(\theta) = \left| \sum_{n=1}^{\infty} \left[B_n \, \pi_n(\cos \theta) + A_n \, r_n(\cos \theta) \right]^2 \right|, \tag{6b}$$

where π_n and r_n are related to the first and second derivatives $(P'_n$ and $P''_n)$ of the Legendre polynomial

$$\pi_n(\cos\theta) = P_n^*(\cos\theta)$$
,

$$r_n(\cos\theta) = (\cos\theta) P_n'(\cos\theta) - (1-\cos^2\theta) P_n''(\cos\theta)$$
.

Using the differential equations which relate the Legendre polynomial P_n to P_n' and P_n'' (e.g., see Ref. 2, p. 115) we can derive the following recurrence relations for P_n' and P_n'' (and hence π_n and π_n):

$$P'_{n+1}(\cos\theta) = \frac{1}{n} \left[(2n+1)(\cos\theta) \ P'_n(\cos\theta) - (n+1) \ P'_{n-1}(\cos\theta) \right], \tag{7a}$$

$$P_{n-1}^{*}(\cos\theta) = (2n+1) P_{n}^{*}(\cos\theta) + P_{n-1}^{*}(\cos\theta).$$
 (7b)

COMPUTER PROGRAMS

The complex coefficients A_n and B_n are computed by the subroutine MIECORL (listed in page 62). The specified parameters are the size parameter (x) and the index of refraction (EMU). The following quantities are returned:

A: real part of A_n

AI: imaginary part of An

B: real part of B_n

BI: imaginary part of Bn

NMAX: maximum value of n

Q: scattering efficiency factor

for $n = 1, 2, 3, \ldots$, NMAX

Two subroutines, SCREC and ABRIM, are called by MIECORL. SCREC returns the Bessel function ratios SPSX, SPSY, CPCX, and CNSN for each value of n = 1N. The specified parameters are the size parameter X and the product Y of the index of refraction times the size parameter. The quantities returned from SCREC and the index of refraction are immediately sent to ABRIM, which returns:

ARL: real part of a_n

All: imaginary part of an

BRL: real part of b,

EIM: imaginary part of b_n

In the subcoutine MIECORL, the quantity ACCY (here ACCY = 10^{-10}) is the value with which the magnitudes of the real and imaginary parts of A_n and B_n are compared to determine when the computation of A_n and B_n is to be terminated. If the test has not been satisfied (i.e., if the magnitudes of the tested quantities remain larger than ACCY) after NSTOP sets of coefficients have been computed, NSTOP (computed in MIECORL) is taken as the maximum value of n, a message to this effect is printed out, and the program continues on its normal course.

The angular scattering functions i_1 and i_2 are computed in subroutine MIESD, listed on p. 11. The specified parameters are

A: real part of A,

AI: imaginary part of A_n for n = 1, 2, 3, ..., NCGFS

B: real part of B_n

BI: imaginary part of B_n

NCOFS: maximum value of n (NCOFS = NMAX)

COSTH: the array of values of $\cos \theta$ (θ is the scattering angle) for which $I_1(\theta)$ and

 $i_2(\theta)$ are to be computed

NANG: the number of values of $\cos \theta$ in the array COSTH.

The following quantities are returned by MIESD for NANG-specified scattering angles:

EA: i_1

EB: 12

EC: $\sqrt{i_1 i_2 \cos \delta}$

ES: $\sqrt{i_1 i_2 \sin \delta}$.

The angle δ is the phase difference between i_1 and i_2 . The quantities EC and ES are of interest in the scattering of arbitrarily polarized light (see Ref. 2, pp. 34-3 β).

The programs described above and listed in Appendix A were run on the CDC-3800 digital computer at NRL. Table 1 gives the computing times required for several size parameters, when the specified number of angles was 37. The quantity t_1 is the time (in seconds) required to compute NMAX sets of coefficients A_n and B_n , and t_2 is the computation time required for the scattering functions.

Table 1
Computing Time for Mie Coefficients
and Scattering Functions

<u>x</u>	NMAX	t ₁ (sec)	t ₂ (sec)			
0.02	3	0.004	0.059			
1.0	.5	0.006	Ó.096			
10.C	17	0.024	0.302			
25.0	34	0.041	0.607			
100.0	114	0.126	2.129			

TABLES AND GRAPHS

The angular scattering (intensity) functions $I_1(\theta)$ and $I_2(\theta)$ presented in the tables of Appendix B and graphs of Appendix C are related to the Mie intensity functions (i_1 and i_2) by a constant factor (for all sizes), i.e.,

$$\begin{cases} I_1(\theta) \\ I_2(\theta) \end{cases} = f \begin{cases} i_1(\theta) \\ i_2(\theta) \end{cases}.$$

The factor $f = 3.55573 \times 10^{-8}$ was applied for convenience in the study (1) for which the computations were made (the computer programs listed here, however, do not array this factor, so that the intensities computed by MIESD are the Mie intensity functions).

The tables and graphs are given for 50 size parameters: 1(1)20, 22(2)50, and 55(5)125 (where 22(2)50, for example, is abbreviated notation for 22,24, 26, ..., 50).

The graphs were plotted from data computed for scattering angles $0^{\circ}(0.2^{\circ})180^{\circ}$ and the tables include the angles $0^{\circ}(2^{\circ})180^{\circ}$. For large size parameters the 2° angular interval does not allow definition of the angular variation of intensity. To tabulate the

intensities at smaller angular intervals would result in very lengthy tables, and thus the graphs were included to furnish the detail-lacking in the tables.

The graphs show three curves, with the ordinate on a (base 10) logarithmic scale:

$$I_1(\theta) \times 10^{-N}$$
 (lowest curve),
 $I_2(\theta) \times 10^{-1}$ (middle curve),
 $I_1(\theta) + I_2(\theta)$ (uppermost curve).

Each set of three graphs is for a given size parameter x, specified at the top of the graph. The factors were applied to separate the curves, and the factor 10^{-N} (not the same for each graph) may easily be determined by counting the number of decades between the two lower curves at either 0° or 180° . For example, in the first graph (for x=1) the lowest curve is three decades below the middle curve at 180° , and including the one decade by which the middle curve was shifted, we see that N=4, or that the lowest curve is of $I_1(0) \times 10^{-4}$.

The scattering efficiency factor Q is given at the top center of each table, just below the size parameter.

The accuracy of the data was checked by running the programs for values of refractive index, size parameter, and scattering angles for which published data existed. On the basis of those comparisons, it is believed that the angular functions are accurate to at least four significant figures and the scattering efficiency factors accurate to six decimal places.

ACKNOWLEDGMENT

The computational procedure and basic programs (ABRIM, PECUR, SCREC) presented in this report were developed by Dr. S. Twomey (a former member of the NRL scientific staff), to whom the author is deeply indebted.

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Appendix A

LISTINGS OF FORTRAN PROGRAMS

```
SUBRECTINE MIECORL (X, EMU, A, AI, B, BI, NMAX, O)
  DIMENSIGN A(1000), A[(1000), B(1000), B1(1000)
 ACCY = 1.0E-10
MSTOP = MAX1(20.,3.0*X)
  Y = X.EMU
 SIG = 1.
SUM = 0.
  ey = 0.5
  VK = 0.
 DO 2 N=1, NATOP
 6V = EV + 1.
  SUM = SUM+FLOAT(LOSP)
  G = SIG+0v/SUM
  IN = LOOP
 CALL SCREC(X,Y,SPSX,SPSY,GPCX,CNSN,IN)
CALL ABRIM(SP5X,SFSY,GPCX;CNSN,ARL,AIM,BRL,BIM,EMU)
 A(LOEP) = G+AHL
AI(LOEP) = G+AIM
 A(L96F) = G+BKL
 BI(LCEP) = G*#IM
 VK = VK+(ARL+BRL)+GV
TEST' = AMAX1(ABS(A(LOUP)),ABS(AI(LEUP)),ABS(B(LOUP)),ABS(BI(LOUP))
.1)
 IF(TEST.LE.ACCY) 3,2
CONTINUE
 PRINT 300, ACCT, NSIOP, A(NSIOP), AI(NSIOP), B(NSTOP), BI(NSTOP)
FERMAT(* SPECIFIED LEVEL OF *, E8.1, * NOT REACHED AFTER *, I3,

1 * ITERATIONS.*/* LAST A, AI, B, BI = *, 4E10.1)
  VK = VK+4./X++2
 C = VK
 MMAX = LOEP
 RETURN
 cND
```

```
SUBSCUTINE ABRIM (SPSX,SPSY, CPCX,CNSM, ARL,AIM,BRL,BIM,ÈMU)
AD = SPSY - EMU *SPSX
BD = EMU*SPSY - SPSX
AI = CNSN + (SPSY = EMU*CPCX)
BI = CNSN + (SPSY = EMU*CPCX)
BI = CNSN + (EMU*SPSY - CPCX)
DOVA = AI/AD
BOVA = BI/BD
ARL = 1./ (1.+BoVA**2)
BRL = 1./ (1.+BoVA**2)
AIM =-ARL + DOVA
BIM =-BRL + BOVA
REJURN
END
```

```
SUBREUTINE SCREC (X,Y,SP5X,SPSY,CPCX,CVSN, IN )
C
        CALL FIRST WITH ARGUMENTS X AND Y GIVEN AND IN-1 OTHERS IMMATERIAL SUBREUTINE TO RECUR. THE DERIVATIVE RATIOS IN THE MIE CREFFICIENTS.
C
       IN = MINO(IN, 2)
       GO TE (1,2), IN
 1
       RX = 1./X
        RY = 1./Y
                                  CX = C05(X)
CY = C05(Y)
       SX = SIN(X)
SY = SIN(Y)
       R = CX/SX
       U = $X/CX
        Q = CY/SY
       CNSN = R
       TNIX = -RX
        TNIY =-RY
       GNOX = 0.
        eney = 0.
       STB & CNSN
       ENBX = BNBX+RX
       CNSN = 5T6
8N8Y = 8N8Y + RY
       TNIX = INIX+RX+RX
        TNIY = TNIY + RY + RY
       R = 1./(T_NIX+R)
 U = -1./(INIX+U)
       Q = 1. / (INIT-Q):
CPCX = -U-8N8X
       SPSX = R-BNOX
       SPSY = Q - GNGY
CNSN = -ChSN+R/U
       STO = CNSN
       RETURN
       END SCREC
      SUBRECTINE MIESD (A,AI, B, BI, NCOFS, CUSIH, NANG, EA, EB, EC, ES)
      DIMENSION A(1300), AI(1000), B(1000), BI(1300)
      DIMENSION COSTH(1801), EA(1801), EB(1801), EC(1801), ES(1801)
       DO 40 KTH= 1, HANG
       RONE = 0.
       STHE = 0.
       08NE = 0.
      OTHE = 0.
ARG = COSIH(KIH)
      REX = 1,-ARG==2
      08 20 ITER = 1,N
IN = MINO(ITER,2)
              ITER = 1,NCOFS
      CALL PECUR (ARG, PP, PD, IN)
                                - REX-PD
        DXPP = AHG+PP
        RONE = RONE + A(ITER) .Pr
                                               + R(ITEK) +0xPP
       * BI(ITER)*8XPP
20
      EA(KTH) = RUNE + C2 + QUNE + 2
EB(KTH) = RINU + 2 + QINU + 2
      EC(KTH) = (RenE+RTHe + USNE+OTH3)
      ES(KTH) = (UBNE+RTH8 - UT+8+RBNE)
```

<u>o</u> .

40.

CONTINUE RETURN END MIESD

```
SUBREUTINE PECUR (ARG, PP, PD, IN)

CPECUR RECURS LEGENDRE 1ST AND 2ND DERIVTYS. RETURNS THE NTH AND ROLDS N+1TH

C BEGIN RECURRENCE BY GIVING THE ARGUMENT -ARG - AND HAVING IN= 1
             GO TG (1,2), IN
PPM2 = 0.
  1
             PPM1 = 1.
PDM2 = 0.
             PDM1 = 0.
FACA = 1.
             FACE = 1.
           FACC = ARG
THARG = ARG + ARG
                                                                                                                                             (2N-1)X
             FACA = FACA + 1,
FACB = FACB + 2,
 2
            FACC = FACC + THARG
PPH0 = (PPH1 + FACC + FACA+PPH2) / (FACA+1.)
PDH0 = FAC8 +PPH1 + PDH2
            PP * PPM1
PD * PDM1
            PPM2 = PFM1
PDM2 = PDM1
PPM1 = PFM0
            PDH1 = PUHO
            RETURN
            FND
```

Appendix B

TABLES OF SCATTERING FUNCTIONS

X = 1Q = 0.093924

θ	I,	I _a	θ	I,	$\mathbf{I_2}$
o	1.8708-009	1.8708-009	92	1.1884-009	1.4136-014
2	1.8703-009	1.8682-009	بآو	1.1696-009	1.3094-012
4	1.8689-009	1.8604-009	96	1.1512-009	5.3553-012
б	1.8665-009	1:8474-009	98	1.1330-009	1.2012-011
8	1.8631-009	1.8293-009	100	1.1152-009	2.1132-011
10	1.8588-009	1.8063-009	103	1.0977-009	3.2561-011
12	1.8536-009	1.7785-009	104	1.0806-009	4.6140-011
14	1.8474-009	1.7460-009	106	1.0639-009	6.1707-011
16	1.8404-009	1.7092-009	108	1.0475-009	7.9095-011
18	1.8324-009	1.6682-009	210	1.0315-009	9.8136-011
20	1.8236-009	1.6232-009	112	1.0159-009	1.1866-010
22	1.8140-009	1.5746-009	114	1.0007-009	1.4051-010
24	1.8035-009	1.5227-009	116	9.8597-010	1.6351-010
26	1.7922-009	1.4679-009	118	9.7163-010	1.8750-010
28	1.7801-009	1.4103-009	120	9.5773-010	2.1231-010
30	1.7673-009	1.3504-009	122	9.4426-010	2.3779-010
32	1.7538-009	1.2886-009	124	9.3123-010	2.6379-010
34	1.7396-009	1-2252-009	126	9.1865-010	2.9015-010
36	1.7248-009	1.1606-009	128	9.0653-010	3.1674-010
38	1.7093-009	1.0951-009	130	8.9485-010	3.4341-010
40	1,6933-009	1.0292-009	132	8.8363-010	3,7002-010
42	1.6767-009	9.6310-010	134	8.7287-010	3.9646-010
44	1.6596-009	8,9725-010	136	8.6256-010	4.2260-010
46	1.6421-009	8.3197-010	138	8.5272-010	4.4833-010
48	1.6240-009	7.6758-010	140	8.4334-010	4.734 -010
50	1.6056-009	7.0442-010	142	8.3442-010	4.9811-010
52	1.5869-009	6.4277-010	144	8.2597-019	5.2197-010
54	1.5678-009	5.8291-010	146	8,1797-010	5.4501-010
56	1.5484-009	5.2511-010	148	8.1044-010	5.6716-010
58	1.5287-009	4.6961-010	150	8.0337-010	5.8833-010
60	1.5088-009	4.1662-010	1.52	7.9676-010	6.0845-010
62	1.4888-009	3.6635-010	154	7.9062-010	6.2746-010
64	1.4686-009	3,1895-010	156	7.8493-010	6.4530-010
66	1.4483-009	2.7459-010	158	7.7970-010	6.6190-010
68	1.4279-009	2.3339-010	160	7.7493-010	6.7722-010
70	1.4075-009	1.9544-010	162	7.7062-010	6.9122-010
72	1.3871-009	1.6083-010	164	7.6676-010	7.0385-010
74	1.3666-009	1.2961-010	166	7.6336-010	7.1507-010
76	1.3463-009	1.0181-010	168	7.6041-010	7.2486-010
78	1.3260-009	7.7449-011	170	7-5792-010	7.3319-010
80	1.3058-009	5.6514-011	172	7.5538-010	7.4003-010
82	1.2857-009	3.8976-011	174	7.5430-010	7.4537-010
84	1.2659-009	2.4788-011	176	7-5317-010	7.4920-010
86	1.2461-009	1.3885-011	178	7.5249-010	7.5149-010
88	1.2267-009	6.1878-012	180	7.5226-010	7.5226-610
90	1.2074-009	1.6002-012			

X = 2Q = 0.712948

θ	I	Is	0	1,	I.
0	1.4002-007	1.4002-007	92	1.1024-006	2.3353-009
2	1,3987-007	1.3975-007	بآؤ	9.7144-009	1.9966-009
4	1.3940-007	1.3895-007	96	8.5182-009	1.7091-009
6	1.3862-007	1.3761-007	98	7.4305-009	1.4656-009
8	1.3753-007	1.3576-007	100	6.4459-009	1.2595-009
10	1.3615-007	1.3342-007	102	5.5589-009	1.0853-009
12	1.5448-007	1.3062-007	104	4.7640-009	9.3802-010
14	1.3253-007	1.2737-007	1.06	4.0557-009	8.1370-010
16	1.3031-607	1.2373-007	108	3.4285-009	
18	1.2784-007	1.1972-007	110	2.8769-009	7.0895-010 6.2102-010
20	1-2514-007	1.1538-007	112	2.3956-009	5.4769-010
22	1.2222-007	1.1077-007	114	2.5990-009	
24	1.1909-007	1.0593-007	136	1.9795-009	4.8721-010
26	1.1578-007	1.0090-007		1.6234-009	4.3823-010
28	1.1231-007	9.5725-008	118	1.3224-009	3.9971-010
30	1.0869-007	9.0456-008	120	1.0718-009	3.7089-010
32	1.0495-007	8.5136-008	122	8.6714-010	3.5121-010
34	1.0110-007		124	7.0400-010	3.4023-010
36		7-9807-008	126	5.7830-010	3.3764-010
38	9.7171-008	7.4512-008	128	4.8611-010	3.4318-010
40	9.3176-008	6.9286-008	130	4.2373-010	3.5557-010
40	8.9136-008	6.4165-008	132	3.8766-010	3.7757-010
42 14	8.5071-008	5.9181-008	134	3.7463-010	4.0586-010
46	8.0999-005	5.4360-008	136	3.8155-010	4.4111-010
	7.6938-008	4.9728-008	138	4.0556-010	4.8288-010
48	7-2905-008	4.5303-008	140	4.4396-010	5.3068-010
50	6.8916-008	4.1102-008	142	4.9427-010	5.8394-010
52	E.4984-008	3.7136-008	144	5.5419-010	6.4200-010
54	6.1125-008	3.5415-008	146	6.2158-010	7.0415-010
56	5.7350-008	2.9944-008	148	6.9448-010	7.6959-010
58 60	5.3672-008	2.6724-008	150	7.7109-010	8 '\748-010
50	5.0098-008	2.3753-008	152	8.4976-010	9.0691-010
62	4.6640-008	2.1028-co8	154	9.2898-010	9.7697-010
64	4.3303-008	1.8542-008	156	1.0074-009	1.0467-009
66	4.0095-008	1.6287-008	158	1.0838-009	1.1152-009
<i>6</i> 8	3,7020-008	1.4253-008	160	1.1570-009	1.1814-009
70	3.4083-cc8	1.2428-008	162	1,2260-009	1.2446-009
72	3.1287-008	1.0799-008	164	1.2901-009	1.3037-009
74	2.8632-008	9.3526-009	166	1.3484-009	1.3580-009
76	2.6121-008	8.0758-009	168	1.402-009	1.4067-009
78	2.3753-008	6.9542-009	170	1.4449-009	1.4492-009
80	2.1528-008	5.9739-009	172	1.4822-009	1.4847-009
82	1.9443-008	5.1213-009	174	1.5116-009	1.5129-009
84	1.7496-008	4.3832-009	176	1.5328-009	1.5334-009
86	1.5684-008	3.7470-009	178	1.5456-009	1.5457-009
88	1.4005-008	3.2008-009	180	1.5499-009	1.5499-009
90	1.2453-008	2.7336-009			**/4/2-003

X = 3Q = 1.753397

6	I ₁	I _a	θ	T	~
0	1.4826-006	1.4826-006		I ₁	Ia
2	1.4786-006	1.4778-006	92	1.9340-008	1.0288-008
Ī,	1.4667-005		94	2.1646-008	9.4899-009
6	1.4470-006	1.4634-006	Śó	2.3697-008	8.7355-009
8.	1.4199-006	1.4396-006	98	2.5439-008	8.0220-009
10	1.3856-006	1.4070-006	100	2.6832-008	7.3490-009
12	1.3448-006	1.3661-006	102	2.7856-008	6.7178-009
14		1.3177-006	104	2.8503-008	6.1299-009
16	1.2978-006	1.2626-006	106	2.8777-008	5.5870-009
18	1.2455-006	1.2017-006	108	2.8694-008	5.0905-009
20	1.1884-006	1.1362-006	110	2.8279-008	4.6407-009
22	1.1274-006	1.0670-006	112	2.7561-008	4.2377-009
24	1.0631-006	9.9530-007	114	2.6578-008	3.8805-009
26	9.9648-007	9.2209-007	116	2.5369-008	3.5681-009
28	9.2819-007	8.4841-007	118	2.3977-008	3-2987-009
	8.5906-007	7.7525-007	120	2.2443-008	3.0707-009
30	7.8984-007	7.0349-007	122	2.0811-008	2.8821-009
32	7-2123-007	6.3392-007	124	1.9121-008	2.7313-009
34 36	6.5391-007	5.6723-co7	126	1.7414-008	2.6170-009
38	5.8849-007	5.0400-007	128	1,5724-008	2.5379-009
30 40	5.2550-007	4.4467-007	130	1.4086-008	2.4933-009
40	4.6541-007	3.8959-007	132	1.2526-008	2.4825-009
	4.0863-007	3-3896-007	134	1.1071-008	2.5051-009
الميارة المراجعة	3.5547-007	2.9290-007	136	9-7397-009	2.5608-009
46	3.0617-007	2.5142-007	138	8.5476-009	2.6494-009
48	2,6090-007	2.1445-007	140	7-5059-009	2.7702-009
50	2.1975-007	1.8181-007	142	6.6211-009	2.9226-009
52	1.8275-007	1.5330-007	144	5.8954-009	3.1053-009
54	1.4985-007	1.2865-007	146	5-3271-009	3.3168-009
56	1.2097-007	1.0755-007	148	4.9109-009	3.5549-009
58	9-5957-008	8.9659-008	150	4.6382-009	3.8165-009
60	7.4625-008	7.4677-008	152	4.4975-009	4.0983-009
62	5-6743-008	6.2229-008	154	4.4750-009	4.3961-009
64	4.2066-008	5-1995-008	156	4.5549-009	4.7052-009
66	3.0318-008	4.3655-008	158	4.7200-009	5.0202-009
68	2.1215-008	3.6916-008	160	4-9522-009	5.3356-009
70	1.4461-008	3.1507-008	162	5-2330-009	5.6453-009
72	9.7642-009	2.7185-008	164	5.5440-009	5.9434-009
74	6.8337-009	2.3738-008	166	5.8671-009	6.2236-009
76	5.3897-009	2.0982-008	168	6.1856-009	6.4803-009
78	5.1653-009	1.8762-008	170	6.4837-009	6.7079-009
80	5-9103 - 009	1.6952-008	172	6.7476-009	6.9015-009
82	7-3937-009	1.5447-008	174	6.9656009	7.0568-009
84	9.4758-009	1.4167-008	176	7.1283-009	7.1703-009
86	1.1759-008	1.305//-008	278	7-2287-009	7.2394-009
88	1.4290-008	1,2051-008	180	7.2626-009	7.2626-009
90	1.6856-008	1-1137-008		1 12000-009	102020-009

X = 4Q = 2.819691

θ	I ₁	Ia	θ	I ₁	Ι ₂
0	7.0318-006	7.0318-006	92	3.8676-008	3.3953-008
2	6.9969-006	6.9945-006	بلۇ	2.7740-008	3.1817-008
4	6.8331-006	6.8839-006	96	1.8660-008	2.9950-008
6	6.7232-006	5 . 7032-006	98	1.1673-008	2.8311-008
8	6.4913-006	6.4576-006	100	6.8930-009	2.6858-008
10	6.2033-006	6.1542-006	102	4.3153-009	2.5554-008
12	5.8664-006	5.8014-006	104	3.8317-009	2.4367-008
14	5.4886-006	5.4089-006	106	5.2438-009	2.3273-008
16	5.0788-006	4.9868-006	108	8.2813-009	2.2257-008
18	4.6463-006	4.5458-006	110	1,2621-008	2.1308-008
20	4.2005-006	4.0963-006	112	1.7908-008	2.0423-008
22	3.7507-006	3,6480-006	114	2,3771-008	1.960G-008
24	3.3055-006	3.2101-006	116	2.9848-008	1.8858-008
26	2.8731-006	2.7904-006	118	3.5795-008	1.8185-008
28	2.4605-006	2.3955-006	120	4.1304-008	1.7593-008
30	2.0738-006	2.0305-006	122	4.67.18-008	1.7086-008
32	1.7177-006	1.6991-006	124	5.0030-008	1.6666-008
34	1.3959-006	1.4035-006	126	5.2898-008	1.6334-008
36	1.1105-006	1.1444-006	128	5.4642-008	1.6090-008
38	8.6263-007	9-2147-007	130	5.5243-008	1.5933-008
40	6.5217-007	7.3325-007	132	5.4743-008	1.5862-008
42	4.7800-007	5.7740-007	134	5:3233-008	1.5002-000
44	3.3808-007	4.5100-007	136	5.0850-008	1.5875-008
46	2.2970-007	3.5068-007	138	4.7768-008	1.5971-008
48	1.4957-007	2.7290-007	140	4.4179-008	1.6151-008
50	9-4058-008	2.1407-007	142		1.5415-008
52	5.9327-008	1.7075-007	144	4.0293-006 3.6318-008	1.6766-008
54	4.1507-008	1.3973-007	146		1.7205-008
56	3.6835-008	1.1813-007	148	3.2453-008	1.7735-008
58	4.1775-008	1.0347-007	150	2.8878-008 2.5745-008	1.8357-508
60	5.3114-008	9.3691-008	152		1.9071-008
62	6.8031-008	8,7119-008	154	2.3173-008	1.9872-008
64	8.4144-008	8.2484-008	174	2.1242-008	2.0754-008
66	9.9537-008	7.8857-008	156	1.9991-008	2.1708-008
68	1.1275-007	7.5612-008	158	1.9419-008	2.2719-008
70	1.2278-007	7.2365-008	160 162	1.9487-008	2.3770-008
72	1.2901-007	6.8924-008	164	2.0120-008	2.4838-008
74	1.3122-007	6.5236-008	166	2.1216-008	2.5899-708
76	1.2947-007	6.1339-008		2.2649-008	2.6926-008
78	1,2410-007		168	2.4281-008	2.7891-008
80	1.1563-007	5.7326-008 5.3308.008	170	2.5970-008	2.8765-008
82	1.0471-007	5-3308-008	172	2.7577-008	2.9523-008
84	T+0+1T-00	4.9400-008	174	2.8974-008	3.0140-008
86	9.2055-008	4.5698-008	176	3.0054-008	3.0595-008
86	7.8427-008	4.2271-008	178	3,0736-008	3.0875-008
	5.4554-008	3.9165-008	180	3.0970-008	3.0970-008
90	5.1108-008	3.6395-008			

X = 5Q = 3.591033

θ	Ją	I ^s	θ	I_{2}	I ₂
0	2.0833-005	2.0833-005	92	9•7572-008	-
2	2.0667-005	2.0665-005	94	1.1379-007	5.2825-008
4	2.0177-005	2.0167-005	96	1.2511-007	4.8561-008
6	1.9362-005	1.9362-005	98 98	1.2511-007	4.5011-008
8	1.8314-005	1.8284-005		1.3060-007	4.2158-008
10	1.7016-005	1.6979-005	100	1.2995-007	3.9964-008
12	1.5536-005	1.5500-005	102	1.2346-007	3.8368-008
14	1.3930-005	1.3905-005	104	1.1191-007	3.7287-008
16	1.2253-005		106	9.6511-008	3.6621-008
18	1.0563-005	1.2252-005	108	7.8737-008	3.6261-008
20	8.9107-006	1.0599-005	110	6.0208-008	3.6107-008
22	7.3424-006	8.9957-006	112	4.2535-008	3.6070-008
24	5.8962-006	7.4863-006	114	2.7186-008	3.6091-008
26	7.0902-000	6.1051-006	116	1.5367-008	3.6134-008
28	4.6012-006	4.8764-006	118	7.9409-009	3.6197-008
	3.4768-006	3.8141-006	120	5.3646-009	3.6301-008
30	2.5325-006	2-9224-006	122	7.6741-009	3.6487-008
32	1.7687-006	2.1969-006	124	1.4498-008	3.6807-008
34	1.1776-006	1.6263-006	126	2.5107-008	3.7313-008
36	7.4495-007	1.1939-00	128	3.8488-008	3.8051-008
38	4.5118-007	8.7999-007	130	5.3446-008	3.9049-008
40	2.7366-007	6.6312-007	132	6.8704-008	4.0317-008
42	1.8820-007	5.2207-007	134	8.3022-008	4.1845-008
44	1.7071-007	4.3702-007	136	9-5296-008	4.3603-008
46	1.9857-007	3.9051-007	138	1.0465-007	4.5543-008
48	2.5172-007	3.6803-007	140	1.1048-007	4.7611-008
50	3.1341-007	3.5824-007	142	1.1254-007	4.9745-008
52	3.7064-007	3-5296-007	144	1.1090-007	5.1890-008
54	4.1429-007	3.4683-007	146	1.0595-007	5.3998-008
56	4.3890-007	3.3689-007	148	9-8333-008	5.6034-008
58	4.4236-007	3-2204-007	150	8.8909-008	5.7976-008
60	4-2533-007	3-0253-007	152	7.8632-008	5.9818-008
62	3.9059-007	2.7940-007	154	6.8478-008	6.1566-008
64	3.4238-007	2.5410-007	156	5.9350-008	6.3233-008
66	2.8571-007	2.2811-007	158	5.1995-008	6.4837-008
68	2.2579-007	2.0275-097	160	4.6946-008	
70	1.6750-007	1.7901-007	162	4.4477-008	6.6393-008
72	1.1499-007	1.5754-007	164	4.4587-008	6.7909-008
74	7-1431-008	1.3863-007	166	4.47014000	6.9387-008
76	3.8858-008	1.2230-007	168	4-7017-008	7.0814-008
78	1.8149-008	1.0836-007	170	5.1280-008	7.2157-008
80	9.0951-009	9.6506-008	170	5.6724-008	7-3412-008
82	1.0548-c58	8. <i>6</i> 396-008	172	6.2602-008	7.4511-008
94	2.0629-008	7-7705-008	174	6.8154-008	7.5421-008
86	3.6966-008	7.0165-008	176	7-2687-008	7.6105-008
88	5.6946-008	6.3578-008	178	7-5645-008	7.6528-008
50	7.7950-008	5.7821-008	180	7.6672-008	7.6672-008
<i>y</i> -	1 + 1 7 / 0 - 0 0 0	J+ (UEX=UUU			

X = 6Q = 3.889158

θ	I ₁	Is	θ	I,	I,
0	4.4574-005	4.4574-005	00	-	
2	4.4048-005	4.4048-005	92 94	7.7006-008	1.2783-007
4	4.2593-005	4.2506-005	94	3.9364-008	1.2324-007
6	4.0032-005	4.0043-005	96	1.4015-208	1.1743-007
ě	3.6779-005	3.6812-005	98	3.3506-009	1.1045-007
10	3.2929-005	3.3006-005	100	7.7583-009	1.0255-007
12	2.8696-005	2 8820 005	102	2.5665-008	9.4116-008
14	2.4296-005	2.8839-005	104	5-3818-008	8.5624-008
16	1.9943-005	2.4534-005	106	8.7766-408	7.7545-008
18	1.5824-005	2.0300-005	108	1.2247-007	7.0270-008
20		1.6317-005	110	1.5299-007	6.4059-008
22	1.2093-005	1.2728-005	112	1.7512-007	5-9014-008
24	8.8599-006	9.6287-006	114	1.8590-007	5.5089-008
26	6.1887-006	7.0687-006	116	1.8465-007	5.2125-008
28	4.0978-006	5.0524-006	118	1,7000-007	4.9909-008
30	2.5646-006	3.5468-006	120	1.4591-007	4.8232-008
32	1.5331-006	2.4908-006	122	1.1527-007	4.6950-008
	9.2367-007	1.8054-006	124	8.2440-008	4.602C-608
34	6.4336-007	1.4045-006	126	5.2053-008	4.5516-008
36	5-9588-007	1.2037-006	128	2.8378-008	4.5620-008
38 40	6.9038-007	1.1279-006	130	1.4749-008	4.6586-008
40 42	8.4829-007	1.1155-005	132	1.3126-008	4.8688-008
42 14	1.0078-006	1.1213-006	134	2.3847-008	5.2162-008
46	1.1258-006	1.1158-006	136	4,5605-008	5.7153-008
	1.1781-006	1.0840-006	138	7.5648-008	6.3671-008
48	1.1570-006	1.0221-006	140	1.1017-007	7-1571-008
50	1.0682-006	9.34?3-007	142	1.4485-007	8.0558-008
52	9.2703-007	8.2904-007	144	1.7544-007	9.0208-008
54	7.5391-007	7.1652-007	146	1.9832-007	1.0002-007
56	5.7073-007	6.0612-007	148	2.1100-007	1.0947-007
58	3-9758-007	5.0513-007	150	2.1239-007	1.1805-007
60	2.5046-007	4.1813-007	152	2.0294-007	1.2538-007
62	1.3985-007	3.4703-007	154	1.8448-007	1.3116-007
64	7.0363-008	2.9152-007	156	1.5995-007	1.3525-007
66	4-1058-008	2.4979-007	158	1.3292-007	1.3771-007
68	4.6408-008	2.1922-007	160	2.0707-007	1.3865-007
70	7.7661-008	1.9710-007	162	8.5666-008	1.3833-007
72	1.2435-007	1.8099-007	164	7-1095-008	1.3707-007
14	1.7579-007	1.6899-007	166	6.4565-008	1.3518-007
76	2.2237-007	1.5981-007	168	6.5984-006	1.3298-007
78	2.5655-007	1.5266-007	170	7.4036-008	1.3075-007
80	2.7349-007	1.4707-007	172	8.6444-008	1.2871-007
82	2.7132-007	1.4274-007	174	1.0038-007	1.2699-007
84	2.53.00-007	1.3940-007	176	1.1292-007	1.2571-007
86	2.1589-007	1.3568-007	178	1.2153-007	1.2453-007
88	1.7112-007	1.3416-007	180	1.2466-007	1.2466-007
90	1.2276-007	2.3136-007	=		-15400-001

X = 7 Q = 3.739585

9	I	I2	θ	I ₁	I_2
0	7.4800-005	7.4800-005	92	1.8798-007	1.2332-00 <i>r</i>
2	7.3534-005	7-3549-005	.jų	2.3664-007	1.1589-007
4	6.9845-005	6.9907-005	96	2.6645-007	1.1474-007
6	6.4049-005	6.4193-005	.98	2.7130-007	1.1862-007
8	5.6629-005	5.6896-005	100	2.5002-007	1.2566-007
10	4,8179-005	4.8509-005	102	2.0654-007	1.3370-007
12	5.9334-005	3.9963-005	104	1.4923-007	1.4076-007
14	3,0704-005	3.1554-005	106	8.9323-008	1.4540-007
16	2.2809-005	2.3881-005	108	3.8773-008	1.4691-007
18	1.6034-005	1.7304-005	110	7-9255-009	1.4535-007
20	1.0607-005	1.2025-005	112	3.4557-009	1.4138-007
22	6.5940-006	8.0841-006	114	2.6973-008	1.3597-007
24	3.9155-006	5.3891-006	116	7.4605-008	1.3006-007
26	2.3804-006	3.7464-006	118	1.3766-007	1.2430-007
28	1,7278-005	2.9062-006	120	2.0426-007	1.1888-007
30	1.6710-006	2,6050-006	122	2.6170-007	1.1353-007
32	1.9368-006	2.6014-006	124	2.9891-007	1.0770-007
34	2.2965-006	2.7016-006	126	3.0879-007	1.0075-007
36	2.5846-006	2.7717-006	128	2.8963-007	9.2318-008
38	2.7045-006	2.7389-006	130	2.4558-007	8.2519-008
40	2,6242,006	2.5827-006	132	1.8588-007	7.2084-008
42	2,3629-005	2.3208-006	134	1.2306-007	6.2334-008
44	1.9739-006	1.9925-006	136	7.0478-008	5.4995-008
46	3.5257-006	1.6440-006	138	3.9641-006	5.1892-008
48	1.0858-006	1.3155-006	140	3.7879-008	5.4576-008
50	7.0900-007	1.0359-006	142	6.6850-008	6.3986-008
52	4.2965-007	8.1914-707	144	1,2218-007	8.0199-008
54	2.6110-007	6.6590-007	146	1.9431-007	1.0233-007
56	1.9586-007	5.6734-007	148	2.7036-007	1.2864-007
58	2.1266-007	5.0951-007	150	3.3669-007	1.5671-007
60	2.8187-007	4.7757-007	152	3.8154-007	1.8388-007
62	3.7206-007	4.5880-007	154	3.9729-007	2.0760-007
64	4.5528-007	4.4423-007	156	3.8183-007	2.2579-007
66	5.1079-007	4.2877-007	158	3.3884-007	2.3714-007
68	5.2689-007	4.1055-007	\260	2.7685-007	2.4123-007
70	5.0108-007	3.8961-007	162	2.0735-007	2.3850-007
72	4.3886-007	3.6679-007	164	1,4249-007	2.3011-007
74	3.5157-007	3.4285-007	166	9.2146-008	2.1768-007
76	2.5380-007	3.1807-007	168	6.2905-008	2.0301-007
78	1.6068-007	2.9232-007	170	5,6063-008	1.8787-007
65	8.5452-008	2.6541-007	172	6.8131-008	1.7375-007
82	3.7580-008	2.3746-007	174	9,1838-008	1.6179-007
84	2.1505-008	2.0916-007	176	1.1804-907	1.5280-007
86	3.6252-008	1.8186-007	178	1.3797-007	1.4724-007
88	7.5827-008	1.5732-007	180	1.4537-007	1.4537-007
90	1.3039-007	1.3734-007		=,011	
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X = 8Q = 3.315825

9	I ₁	Ιą	θ	I ₁	I2
0	1.0458-004	1.0458-004	92	1.4314-007	2.8976-007
2	1.0202-004	1.0213-004	94	7.4978-008	2.7335-007
4	9.4657-005	9.5061-005	96	3.0344-008	
6	8.3382-005	8.4230-005	98	2.1820-008	2.4554-007
8	6.9522-005	7.0888-005	100	5.3833-008	2.1132-007
10	5.4614-005	5.6487-005	102	1.2037-007	1.7732-007
12	4.0166-005	4.2450-005	104		1.4981-007
14	2.7433-005	2.9965-005	106	2,0560-007 2,8733-007	1.3305-007
16	1.7266-005	1.9841-005	108	3.4284-007	1.2828-007
18	1.0036-005	1.2439-005	110		1.3374-007
20	5.6486-006	7.6960-006	112	3.5532-007	1.4555-007
22	3.6418-006	5.2094-006	114	3-1930-007	1.5922-007
24	3.3296-006	4.3726-006	116	2.4307-007	1.7108-007
26	3.9616-006	4.5184-006	118	1.4729-007	1.7933-007
28	4.8659-006	5.0458-006	120	5-9870-008	1.8420-007
30	5.5485-006	5.5062-006	120	8.4036-009	1.8792-007
32	5.7394-006	5.6410-006	124	1.2159-008	1.9255-007
34	5.3834-006	5.3735-006		7.6059-008	1.9970-007
36	4.5902-006	4.7656-006	126	1.8846-007	2.0912-007
38	3.5628-006	3.9583-006	128	3.2359-007	2.1845-007
40	2.5221-006	3.1120-006	130	4.4817-007	2.2381-007
42	1.6486-006	2.3601-006	132	5.3050-007	2.2097-007
44	1.0467-006	1.7632-006	134	5.4940-007	2.0691-007
46	7.3768-007	1.4036-006	136	5.0064-007	1.8114-007
48	6.7357-007	1.1967-006	138	3.9862-007	1.4640-007
50	7.6557-007	1.1106-006	140 142	2.7301-007	1.0852-007
52	9.1498-007	1.0868-006		1.6094-007	7.5250-008
54	1.0391-006	1.0770-006	144 146	9.6936-008	5-4556-008
56	1.0866-006	1.0507-006		1.0292-007	5.2627-008
58	1.0413-006	9.9691-007	148	1.8276-007	7.2257-008
60	9.1609-007	9.1882-007	150	3-1998-007	1.1204-007
62	7.4198-007	8.2704-007	152	4.8235-007	1.6644-007
بلک	5.5519-007	7.3289-007	154	6.3027-007	2.2702-007
66	3.8731-007	6.4425-007	156	7-2717-007	2.8423-007
68	2.5947-007	5.6438-007	158	7.4916-007	3.2939-007
70	1.8076-007		160	6.9095-007	3.5640-007
72	1.4996-007	4.9310-007	162	5.6672-007	3.6284-007
74	1.5866-007	4.2908-007	164	4.0566-007	3.4994-007
76	1.9449-007	3.7193-007	166	2.4356-007	3-2198-007
78	2.4360-007	3.2317007	168	1.1293-007	2.8492-007
80	2.9229-007	2.8551-007	170	3.4511-008	2.4504-007
82	3.2820-007	2.6192-007	172	1.2586-008	2.0767-007
64	3.4157-007	2.5340-007	174	3.5257-008	1.7655-007
86	3.2669-007	2.5803-007	176	7-9548-008	1.5375-007
88	2.8342-007	2.7085-007	178	1.1960-007	1.4001-007
90	2.1810-007	2.8487-007	180	1.3545-007	1.3545-007
7 0	* * TOYO ~ OO \	2.9294-007			

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X = 9Q = 2.783077

8	I_{3}	\mathbf{I}^{2}	θ	I_1	I.
0	1.2627-004	1.2627-004	92	1.8225-007	1.9582-307
2	1.2177-004	1.2213-004	94	2.1311-007	2,0198-007
4	1.0903-004	1.1037-004	96	2.4336-007	2.3653-007
6	9.0213-005	9.2901-005	98	2.5481-007	2.8286-007
Ř.	6.8357-005	7,2408-005	100	2.3296-007	3.2166-007
10	4.6736-005	5.1802-005	102	1.7649-007	3.3797-007
12	2.8174-005	3.3634-005	104	1.0164-007	3.2628-007
14	1.4524-005	1.9641-005	106	3.8379-008	2.9167-007
16	6.4223-006	1.0520-005	108	1.9148-008	2.4699-007
18	3.3378-006	5.9715-006	110	6.4410-008	2.0719-007
20	3.8909-006	4.9442-006	112	1.7133-007	1.8346-007
22	6.3199-006	6.0192-006	. 114	3.1115-007	1.7933-007
24	8.9625-006	7.8002-006	116	4.3745-007	1.9031-007
26	1.0626-005	9.2188-006	118	5.0307-007	2.0700-007
28	1.0766-005	9.6918-006	120	4.7942-007	2.2004-007
30	9.4685-006	9.1212-006	122	3.7028-007	2.2477-007
32	7.2579-006	7.7697-006	124	2.1397-007	2.2352-007
34	4.8356-006	6.0750-006	126	7.1852-008	2.2439-007
36	2.8230-006	4.4671-006	128	6.6270-009	2.3716-007
38	1.5875-006	3.2409-006	130	5.8270-008	2.6794-907
40	1.1845-006	2.5040-006	132	2.2683-007	3,1497-007
42	1.4090-006	2.1984-006	134	4.6929-007	3.6751-007
44	1.9182-006	2.1656-006	136	7.1265-007	4.0363-007
46	2.3715-006	2.2262-006	138	8.7904-007	4.2095-007
48	2.5392-006	2.2421-006	140	9.1418-007	3.9348-007
50	2.3522-006	2.1468-006	142	8.0845-007	3.2680-007
52	1.8876-006	1.9430-006	144	6.0233-007	2.3438-007
54	1.3080-006	1.6769-006	146	3.7379-007	1.3953-007
56	7.8608-007	1.4064-006	148	2.1138-007	6.8543-008
58	4,4178-007	1.1748-006	150	1.8279-007	4.2435-008
60	3.1161-007	9.9934-007	152	3.1003-007	7.0168-008
ó2	3.5434-007	8.7399-007	154	5.6061-007	1.4562-007
64	4.8292-007	7.8103-007	156	8.5799-007	2.4944-007
66	6.0577-007	7.0386-007	158	1.1077-006	3.5512-007
68	6.6024-007	6.3506-007	160	1.2295-006	4,3710-007
70	6.2766-007	5.7708-007	162	1,1846-006	4.7823-007
72	5,2840-007	5.3693-007	164	9.8741-007	4.7403-007
74	4.0324-007	5.1883-007	166	6.9809-007	4.3253-007
76	2.9167-007	5.1898-007	168	3.9992-007	3.7016-007
78	2.1642-007	5.2517-007	170	1.6902-007	3.0536-007
80	1.7927-007	5.2119-007	172	4.8737-008	2.5249-007
82	1.6735-007	4.9385-007	174	3.7755-008	2.1815-007
84	1.6453-007	4.3910-007	176	9.5882-008	2.0107-007
86	1.6129-007	3.6450-007	178	1.6465-007	1.9517-007
88	1.5841-007	2,8680-007	180	1.9408-007	1.9408-007
90	1.6332-007	2.2560-007		=3,	, 30,
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X = 10Q = 2.206549

0 1.2708-004 1.2708-004 92 1.2795-007 5.2428-007 1.10208-004 94 1.5454-007 4.7143-007 6 7.8650-005 8.1643-005 96 1.4726-007 3.6768-007 8 5.1892-005 5.6144-005 100 9.1304-008 1.7667-007 12 1.023-005 1.5816-005 102 9.7347-008 1.6336-007 12 1.1023-005 1.5816-005 102 9.7347-008 1.6336-007 12 1.1023-005 1.5816-005 102 9.7347-008 1.6336-007 12 1.1023-005 1.5816-005 102 9.7347-008 1.6336-007 12 1.1023-005 1.5816-005 104 1.3703-007 2.1310-007 12 1.1023-005 1.5816-005 104 1.3703-007 2.1310-007 16 8.2522-007 2.8111-006 108 2.0795-007 3.7354-007 18 1.4719-006 4.5310-006 108 2.0795-007 3.7354-007 12 1.4418-005 1.2050-005 111 3.2050-008 3.4029-007 12 1.4418-005 1.2050-005 114 3.2050-008 3.4029-007 22 1.4418-005 1.3908-005 116 1.4146-008 2.8152-007 24 1.6162-005 1.3908-005 116 1.4146-008 2.8152-007 28 1.1352-005 1.3550-005 118 9.1455-008 2.4701-007 30 7.1241-006 8.6217-006 122 4.6213-007 2.4987-007 31.3968-007 31.396-007 31.396-007 31.396-007 31.396-007 31.396-007 31.396-007 31.396-007 31.396-007 31.4418-006 3.5587-006 122 4.5213-007 2.4987-007 31.396-007 31.4418-006 4.2675-006 124 6.1579-007 3.1396-007 31.4418-006 3.5587-006 126 6.4645-007 3.1396-007 31.4418-007 3.5356-006 128 5.3122-007 3.0380-007 31.4418-007 3.5356-006 128 5.3122-007 3.0380-007 31.4455-006 4.2675-006 124 6.1579-007 3.0380-007 31.4455-006 4.2675-006 126 6.4645-007 3.1396-007 31.4455-006 4.2675-006 126 6.4645-007 3.0380-007 31.4455-006 4.2675-006 126 6.4645-007 3.0380-007 31.4455-006 4.2675-006 126 6.4645-007 3.0380-007 31.4455-006 1.5587-006 130 3.700-007 3.0380-007 3.0380-007 3.6504-006 3.5857-006 130 3.1700-007 2.6510-007 3.0380-007 3.6504-006 3.5857-006 130 3.700-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-007 3.0380-0	Ð	I2	Ią	θ	I ₁	7
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6 7.8590-005 8.1683-005 98 1.4726-007 3.6768-007 8 5.1892-005 5.6144-005 100 9.1304-008 1.7667-007 12 2.5492-007 1.5816-005 100 9.1304-008 1.7667-007 12 1.1023-005 1.5816-005 102 9.73747-008 1.6336-007 12 1.1023-005 1.5816-005 104 1.3709-007 2.1310-007 12 1.1023-005 1.5816-005 104 1.3709-007 2.1310-007 18 1.4719-006 1.5811-006 106 1.8614-007 2.9707-007 18 1.4719-006 1.5310-006 110 1.7841-007 1.0960-007 18 1.4719-006 1.5310-006 110 1.7841-007 1.0960-007 12 1.10571-007 3.9338-007 114 1.3250-008 3.4029-007 114 1.3250-008 3.4029-007 114 1.3250-008 3.4029-007 116 1.4855-005 1.3950-005 118 9.1455-008 2.4701-007 3.0388-005 116 1.4855-005 1.3550-005 118 9.1455-008 2.4701-007 30 7.1241-006 8.6217-006 122 4.6213-007 2.8957-007 32 3.5986-006 6.0121-006 122 4.6213-007 2.8957-007 33 4.16541-006 4.2675-006 124 6.1579-007 3.1396-007 36 1.4123-006 3.5356-006 128 5.3122-007 3.2478-007 3.6758-006 1.244-006 4.2675-006 124 6.1579-007 3.2478-007 3.6758-006 1.26541-006 4.2675-006 124 6.1579-007 3.2478-007 3.6758-007 3.6758-006 126 6.4645-007 3.2478-007 3.6758-006 126 6.4645-007 3.2478-007 3.6758-007 3.6758-006 126 6.4645-007 3.2478-007 3.6758-006 126 6.4645-007 3.2478-007 3.6758-007 3.6758-006 126 6.4645-007 3.2478-007 3.6758-007 3.6758-006 126 6.4645-007 3.2478-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007 3.6758-007	2			92		5.2428-007
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32		7-1241-006	8.6217-006		2.7919-007	2.4987-007
36			6.0121-006		4.0213-007	2.8053-007
36	34	1.6541-006	4-2675-006		6.1519-007	3-1396-007
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60 4.7272-007 5.6220-007 170 6.4140-007 3.5571-007 80 4.6945-007 4.3758-007 172 4.0506-007 3.1673-007 82 3.6843-007 3.4777-007 174 3.2732-007 3.4069-007 84 2.2885-007 3.2304-007 176 3.7375-007 4.0615-007 86 1.1713-007 3.6450-007 178 4.5895-007 4.7177-007 88 7.1318-008 4.4222-007 180 4.9895-007 4.7177-007	10		6.7911-007		0.0733.005	5-4531-007
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	ر ارم	4.7272-007	5.6220-007		2.3772-001	4.4587-007
3.6843-007 3.4777-007 174 3.2732-007 3.4069-007 3.4069-007 3.4069-007 3.6450-007 176 3.7375-007 4.0615-007 178 4.5895-007 4.7177-007 18 7.1318-008 4.4222-007 180 4.0895-007 4.7177-007	50	4.6945-007	4-3758-007	172	1. 050C 00E	3-5571-007
2.2885-007 3.2304-007 176 3.7375-007 4.0615-007 18 7.1318-008 4.4222-007 180 4.0895-007 4.7177-007	52	3.6843-007		172	4,0700-007	3-1673-007
18 7-1318-008 4-4222-007 180 4-5895-007 4-7177-007	34	2.2885-007	3.2304-007		3.4/32-007	3-4069-007
8 7.1318-008 4.4222-007 180 4.5095-007 4.7177-007	35	1.1713-007	3.6450-007	170	3-1375-007	4.0615-007
	38	7-1318-008	4.4222-007	160		4.7177-007
	X	8.6841-008	5.0926-007	100	4.9035-007	4-9885-007

X = 11Q = 1.774110

θ	1,	I3	θ	I ₁	Ţ ₂
0	1.1287-004	1.1287-004	92	2.4004-007	1.9622-007
2	2.0585-004	1.0576-004	94	9.4353-008	2.1536-007
4	8.6771-005	8.6430-005	96	1.9377-008	3.3500-007
6	6.0354-005	6.0251-005	98	3.2326-308	4.7862-007
8	3.4788-005	3.4006-005	100	9.2325-008	5.5690-007
10	1.4489-005	1.3624-005	102	1.3633-007	5.1998-007
12	3.3121-606	2.3727-006	104	1.2784-007	3.8590-co?
14	1.3051-006	1.8886-007	106	8.0551-008	2.2870-007
16	5.7028-006	4.2759-006	108	4.3208-008	1,3406-007
18	1.2345-005	1.0590-005	110	5.6992-008	1.4947-007
20	1.7386-005	1.5520-005	112	1.2077-007	2.5843-007
22	1.8612-005	1.7081-005	114	1.8803-007	3.9337-007
24	1.5917-005	1.5243-005	116	2.0124-007	4.7824-007
26	1.0882-005	1.1424-005	118	1.3960-007	4.7423-007
28	5.7761-006	7.5189-006	120	4.5136-008	4.0062-007
30	2.4586-006	4.7680-006	122	4.7229-009	3.1875-007
32	1.6706-006	4.2423-006	124	9.4798-008	2.8990-007
34	2.9282-006	4.9798-006	126	3.2281-007	3.3432-007
36	4.9659-006	5.9279-005	128	6.0585-007	4.1776-007
38	6.4415-006	6.5032-006	130	8.0676-007	4.7467-007
40	6.5450-006	6.1868-006	132	8.1186-007	4.5398-007
42	5.2839-006	5.1080-006	134	6.0588-007	3.5823-007
44	3.2989-006	3.7496-006	136	2.9596-007	2.4967-007
46	1.4831-006	2.6296-006	138	6.4043-008	2.1673-007
48	5.0422-007	2.0396-006	140	6.9140-008	3.1889-007
50	5.3057-007	1.9558-006	142	3.5341-007	5.4281-007
52	1.2357-006	2.1272-006	144	8.0820-007	7.9823-007
-54	2.0388-006	2.2574-006	146	1.2244-006	9.5992-007
56	2.4280-006	2.1676-006	148	1.4031-006	9.3461-007
58	2.1985-006	1.8599-006	150	1.2667-006	7.1582-007
60	1.5013-006	1.4704-006	152	9.0672-007	
62	7.0635-007	1.1593-006			3.9417-007
64	1.7841-007	1.0111-006	154 156	5.3941-007 3.9118-007	1.1504-007 4.8036-009
66	8.9811-008	9.9977-007	158	5.7681-007	
68	3.6189-007	1.0256-006	160		1.0565-007
70	7.4575-007	9.9025-007	162	1.0376-006	3.5498-007
72	9.8019-007	8.5998-007	164	15735-006	6.2096-007
74	9.3209-007	6.7932-007	166	1.9496-006	7.7479-007
76	6.4691-007	5.3342-007	168	2.0177-006	7.5921-007
78	2.9482-007			1.7851-006	6.1563-007
80	5.6817-008	4.8725-007 5.4182-007	170 172	1.3955-006	4.5532-007
82	2.2245-008	6.3381-007		1.0390-006	3.9224-007
84	1.5326-007	6.7680-007	174	8.4570-007	4.7640-007
86	3.2683-007		176	8.2695-007	6.6603-007
88	4.1923-007	6.1655-007 4.6564-007	178	8.9296-007	8.5384-007
90	3.7787-007	2.9627-007	180	9.3146-007	9.3146-007
20	2.1101.ml	5.30¢1-00(

X = 12Q = 1.660397

8	1,	I.a	θ	İ,	I.
0	1.2713-004	1.2713-004	92	1.3900-007	5.9511-007
2	1.1899-004	1.1855-004	بلۇ	3.6899-007	5.8544-007
4	9.7163-005	9.5650-005	96	4.9869-007	4.2789-007
6	6.8428-005	6.5727-005	98	4.3695-007	2.2094-007
8	4.0947-005	3.7510-005	100	2.4342-007	1.0449-007
10	2.1141-005	1.7713-005	102	6.2309-008	1.5884-007
12	1.1558-005	8.7934-006	104	2.8892-009	3.4559-007
14	1.0596-005	8.7764-006	10ó	6.2682-008	5.3350-007
16	1.3974-005	1,2966-005	108	1,4766-007	5.9086-007
18	1.7088-005	1.6626-005	110	1.6384-007	4.7822-007
20	1.7057-005	1.6890-005	112	9.9570-008	2.7510-007
22	1.3583-005	1.3707-005	114	3.0185-008	1.2219-007
24	8.4488-006	9.0247-006	116	4.3658-008	1.2121-007
26	4.1282-006	5.2734-006	118	1.5329-007	2.6493-007
28	2.3415-00si	2 0007 006		2.7529-001	
30		3.9397-006	120	2.7564-007	4.4725-007
	3.2722-006	4.9514-006	122	2.9859-007	5.4460-007
32	5.7096-006	7.0177-006	124	1.8726-007	5.0756-007
34	7.8847-005	8.5533-006	126	3.7485-008	3.9470-007
36	8.4605-006	8.5773-006	128	2.1595-008	3.2330-007
38	7.1484-006	7.1141-06	130	2.5570-007	3.7416-007
40	4.6940-006	4.9789-006	132	6.8699-007	5.2327-007
42	2.3333-006	3.1827-005	134	1.0967-006	6.5453-007
ήμ	1.0752-006	2.3518-006	136	1.2347-006	6.4812-007
46	1.2049-006	2.4726-006	138	9.9937-007	4.8049-007
48	2.2382-006	3.0363-006	140	5.3412-007	2.5926-007
50	3.2922-006	3.4255-006	142	1.5630-007	1.5979-007
52	3.6214-006	3.2820-006	144	1.5431-007	3.0171-007
54	3.0108-006	2.6531-006	146	5.8590-007	6.5140-007
56	1.8243-006	1.8754-006	148	1.2217-006	1.0240-006
58	7.2152-007	1.3149-006	150	1.6845-006	1.1927-006
60	2.3854-007	1.1400-006	152	1.6989-006	1.0367-006
62	4.8788-007	1.2580-006	154	1.2848-006	6.2942-007
64	1.1412-006	1.4236-006	156	7.5778-007	2.0175-007
66	1.6767-006	1.4239-006	156	5.3074-007	1.7759-009
68	1.7175-006	1.2097-006	160	8.4383-007	1.3963-007
70	1.2450-006	8.9902-007	162	1.6039-006	5.2084-007
72	5.6987-007	6.6701-007	164	2.4399-006	9.1225-007
74	9.9135-008	6.1338-007	166	2.9354-006	1.0963-006
76	6.7326-008	6.9918-007	168	2.8822-006	1.0098-006
78	4.0521-007	7.8973-007	170	2.3868-006	7.7577-007
80	8.1766-007	7.6310-007	172	1.7702-006	6.0807-007
82	9.9983-007	6.0091-007	174	1.3428-006	6.5871-007
84	8.3662-007	3.9709-007	176	1.2154-006	
86	4.5531-007	2.8226-007		1.2753-006	9.1239~007 1.2011~006
88	1.1135-007	3.2282-007	178 180	1.3264-006	1.3264-006
90	1.5411-009	4.6933-007	100	T+3604+000	T+2504+000

X = 13Q = 1.941343

		I ₂	θ	I,	I_2
0 2.	5023-004	2.5023-004	92	1.0383-006	2.9286-007
	3448-004	2.3569-004	وَلَوَ	4.5206-007	1.8176-007
4 1.	9261-004	1.9677-004	96	4.7879-028	2.7878-007
	821-004	1.4537-004	98 98	9.3080-008	4.9156-007
	6699-005	9.5324-005	100	4.6111-007	6.2210-007
	3860-005	5.6338-005	102	7.7597-007	5.3849-007
	7494-005	3.3336-005	104	7.5292-007	2.9358-007
	3552 - 005		106		
	5264 - 005	2,2009-005 1.7069-005	108	4-2922-007	8.5917-008
	2425 - 005			9.4475-008	9.2851-008
	1605 OCC	1.3509-005	110	6.4148-009	3.1759-007
	1625-006	9.2885-006	112	1.6347-007	5.8193-007
	7139-006	5.1720-006	114	3.3781-007	6.7330-007
	1478-006	2.9508-006	116	3.2180-007	5.2248-007
	3909-006	3.5432-006	118	1.4120-007	2.6058-007
28 7.	2591-006	6.1881-006	120	2.5700-008	1.0666-007
30 9.	7129-006	8.9951-006	122	1.6407-007	1.8229-007
32 1.0	0251-005	1.0209-005	124	4.8655-007	4.2272-007
34 8.	7182-006	9.23311-006	126	7.0217-007	5.9981-007
	1332-006	6.8028-006	128	5.7975-007	6.0222-007
	3699-006	4.3331-006	130	2.1494-007	4.6335-007
	3274-006	2.9836-006	132	9.5321-009	3,7111-007
	0612-006	3.0386-006	134	3.3738-007	4.8070-007
44 3.9	900-4946	3.9131-006	136	1.1715-006	7.5667-007
	5464-006	4.6683-006	138	2.0209-006	9.8147-007
48 4.5	823-006	4.6401-006	140	2.2827-006	9.3673-007
50 3.6	5918-006	3.7892-006	142	1.7482-006	6.0851-007
52 2.1	1009-006	2.6103-006	144	8.3106-007	2.3388-007
54 1.3	3498-006	1.7283-006	146	2.8793-007	1.3070-007
	0128-006	1.4797-006	148	6.2089-007	4.3640-007
58 1.1	121-006	1.7439-006	150	1.6444-006	9.7084-007
	1062-006	2.0980-006	152	2.5955-006	1.3500-006
	810-006	2.2489-006	154	2.7322-006	1.2763-006
	1729-006	1.7963-006	156	1.9491-006	7.8064-007
	277-006	1.2566-006	158	9.0301-007	2.1802-007
	588-007	8.5805-007	160	5.2111-007	1.0356-008
	189-007	7.8224-007	162	1.2712-006	3.3182-007
	107-007	9.4719-007	164	2.7776-006	9.8344-007
74 1.3	345-006	1.1049-006	166	4.0961-006	1.5558-006
	7337-006	1.0566-006	168	4.4296-006	1.7496-006
78 1.4	1885-006	8.0562-007		4.4490-000	1.7490-000
	17 ¹ 45=007	5.3228-007	170	3.7128-006	1.5988-006
	;177 - 007	4.2431-007	172	2.6055-006	1.4202-006
		7.2431.007	174	1.9258-006	1.5351-006
	5011-008	5.1474-007	176	2.0048-006	1.9937-006
	724-007	6.6239-007	178	2.4944-006	2.5260-006
	1084-006	6.8481-007	180	2.7603-006	2.7603-006
90 1.3	1453-006	5.2287-007			

X = 14Q = 2.427061

θ	I ₁	I2	θ	I,	I _e
0	5.1999-004	5.1999-004	92	2.6543-007	5.7715-007
2	4.8530-004	4.8882-004	94	8.6147-007	7.5527-007
4	3.9417-004	4.0 3-004	96	1.2384-006	6.7119-007
6	2.7826-004	2.9566-004	98	1.0446-006	3.7122-007
8	1.7140-004	1.8866-004	100	4.8511-007	1.4854-007
10	9.4211-005	1.0524-004	102	1.1180-007	2.3807-007
12	4.8971-005	5.2079-005	104	2.6661-007	5.6148-007
14	2.5635-005	2.3982-005	106	7.4457-007	7.9101-007
16	1.2698-005	1.0976-005	108	1.0197-006	6.7724-007
18	4.5237-006	4.8984-006	110	7-9391-007	3.1152-007
20	1.3048-006	2.0518-006	112	2.9543-007	5.0136-008
22	4.1573-006	1.8819-006	114	2.0139-008	1.6499-007
24	1.100%-005	4.2352-006	116	1.9811-007	5.6681-007
26	1.6870-005	7.7833-006	118	5.5950-007	8.8335-007
28	1,7583-005	1.0439-005	120	6.5250-007	8.2270-007
30	1.3014-005	1.0769-005	122	3.6654-007	4.6176-007
32	6.8374-006	8.9103-006	124	7.8027-008	1.68/6-007
34	3.2716-006	6.2691-006	126	2.3304-007	2.3210-007
36	3.8017-006	4.4153-006	128	8.0633-007	5.7471-007
38	6.5545-006	4.0875-006	130	1.2529-006	8.4045-007
40	8.4135-006	4.9278-006	132	1.0712-006	7.7719-007
42	7.6965-006	5.9395-006	134	4.1783-007	5.1746~007
44	5.1380-006	6.2166-006	136	8.3028-008	4.5428-007
46	2.7340-006	5.4690.006	138	7.4863-007	8.1801-007
48	1.8573-006	4.0957-006	140	2,2212-006	1.3841-006
50	2.3475-006	2.8453-006	142	3.4528-006	1.6389-006
52	3.0776-006	2.3047-006	144	3.4381-006	
54	3.1412-006	2.5302-006	146	2.1844-006	1.2777-006
56	2.4973-006	3.0527-006	148	7.9489-007	5.5285-007
58	1.6920-005	3.2501-006	150	5.0580-007	9.5361-008
60	1,1904-006	2.8205-006	152	1.5423-006	3.3717-007
62	1.0365-006	1.9932-006	152 154	2.8854-006	1.0749-006
64	1.0276-006	1.3115-006	156	3.2189-006	1.6204-006
66	1.0321-006	1.1670-006	158	3.2109-000	1.4382-006
68	1.0581-006	1.4625-006	160	2.1709-006	6.7999-007
70	1.0904-006	1.8107-006	162	6.9159-007	8.9750-008
72	9.9977-007	1.7491-006	164	1.6626-007	3.2902-007
74	6.9172-007	1.2891-006	166	1.1186-006	1.3433-006
76	3.0353-007	7.8902-007	168	2.7432-006	2.3867-006
78	1.5126-007	6.1480-007	170	3.7192-006	2.7228-006
80	4.1445-007	8.0093-007	170 172	3.5145-006	2.3628-006
82	8.8964-007	1.0476-006		2.8993-006	2.1262-006
84	1.1264-006	1.0362-006	174	3.1585-006	2.9095-006
86	8.6149-007	7.4106-007	176	4.7593-006	4-7956-006
88	3.1469-007	4.3143-00?	178	6.7834-006	6.9274-006
90	9.8930-009		180	7.7039-006	7-7039-006
50	3.0230 - 003	3.7917-007			

X = 15Q = 2.709481

6	Ix	I.	9	1,	ľ
0	8.3266-004	8.3265-004	92	4.6842-007	9.1558-007
2	7.7971-004	7.7510-004	94	2.7076-007	4.7177-007
4	6.3939-004	6.2365-004	96	1.0764-007	2.7262-007
6	4.5735-004	4.3038-004	98	1.9032-007	5.0444-007
8	2.8331-004	2.5124-004	100	4.6104-007	8.1257-007
10	1.5000-004	1.2145-004	102	6.4463-007	7.5041-007
12	6.5713-005	4.7125-005	104	5.6446-007	3.4585-007
14	2.1482-005	1.4093-005	106	3.5168-007	8.9158-008
16	3.5473-006	3.4466-006	108	2.8666-007	3.3978-007
18	1.4206-005	2.2124-006	110	4.5330-007	8.5964-007
20	8.2538-006	4,7230-006	112	6.2780-007	1.0546-005
22	1.7769-005	8.6480-006	114	5.5071-007	6.7172-007
24	2.3463-005	1.1773-005	116	2.5861-007	1.3395-007
26	2.1418-005	1.2235-005	118	5.9872-008	8.7127-008
28	1.3167-005	1.006k-005	120	1.6426-007	6.523.0-007
30	4.6608-005	7.2466-006	122	4.1562-007	1.2523<006
32	1.4871-026	5.8744-006	124	4.7735-007	1.2485-006
34	4,4465-00€	6.3674-006	126	2.6678-007	6.7205-007
36	9.4129-606	7.5140-006	128	1.0071-007	2.0270-007
38	1.1358-005	7 9597-006	130	3.1899-007	3:9096-007
40	8.6598-005	7.4011-006	132	8.1578-007	1.0150-006
42	3-9104-006	6.4328-006	134	1.0766-006	1.3388-006
44	9.7476-007	5.6183-006	136	7.6877-007	1,0011-006
46	1.4411-006	4.9924-006	138	2.3330-007	4.9466-007
48	3.6890-006	4.3841-006	140	2.4067-007	6.2435-007
50	4.9542-006	3.8/10-006	142	1.1674-006	1.5170-006
52	3.9981-006	3.7401-006	144	2.4690-006	2.3463-006
54	1,8704-005	3.9147-066	146	3.1004-006	2.1822-006
56	4.5502-007	3.9278-006	148	2.5328-006	1.0729-006
58	5.8549-007	3.3664-co6	150	1.3164-006	1.0569-007
60	1.5426-006	2.4254-006	152	5.5649-007	2.7371-007
62	2.0825-006	1.7872-005	154	8.1522-007	1.3524-006
64,	1.6860-006	1.8930-006	156	1.5829-006	2.0870-006
66	8.2057-007	2.4219-006	158	1.8677-906	1.5893-006
68	2.3378-007	2.6057-006	160	1.2612-006	4,3989-007
70	2.0531-007	2.0593-006	162	3.4180-007	1.9113-007
72	4.6520-007	1.2030-006	164	2.0822-008	1.6768-006
74	6.3625-007	7.9760-007	166	5.9366-007	3.9315-006
76	5.9520-007	1.1107-006	168	1.5404-006	5.0089-006
78	4.3964-007	1,6433-006	170	2,2423-006	3.9861-006
80	2.7089-007	1.7034-006	172	2.7373-006	2.0685-006
82	1.1877-007	1.1641-006	174	3.61-0-006	1.5151-006
84	2,6876-008	5.6132-007	176	5.1912:006	3.3582-006
86	7.8715-008	4.5590-007	178	6.8760-006	6.2363-006
88	2.792?-007	8.1359-007	180	7.6143-006	7.6143-006
90	4.7220-007	1.0959-006			

X = 16Q = 2.792617

θ	I,	. I g	θ	I ₁	I.
0	1.1371-003	1.1371-003	92	1.1543-008	1.4840-007
2	1.0591-003	1.0504-003	94	1.8066-007	3.6160-007
4	8.5286-004	8.2499-004	96	4.3702-007	6.7186-007
6	5.8691-004	5.4378-004	98	5.4328-007	6.0445-007
8	3.3675-004	2.9302-004	100	4.1275-007	2.6166-007
10	1.5303-004	1.2264-004	102	2.2854-007	1.2184-007
12	4.8957-005	3.6189-005	104	2.2565-007	3.3925-007
14	8.8082-005	8.0040-006	106	4.0531-007	5•3736-007
16	5.9314-006	8.0095-006	108	5.5432-007	3.7385-007
18	1.7009-005	1.6024-005	110	5.3367-007	6.7898-008
20	2.7220-005	2.2374-005	112	4.3924-007	1.2020-007
22	2.9518-005	2.3205-005	114	4.2606-007	5.8330-007
24	2.3058-005	1.8165-005	116	4.6573-007	
26	1.2081-005	1.0457-005	118	3.9668-007	9.0874-007
28	3.3698-006	5.2386-005	120	1.9550-007	6.5299-007 1.2783-007
30	1.7386-006	5.5430-006	122	5.7808-008	7.3051.009
32	6.4239-006	9.5570-006	124	1.3686-007	7.1954-008
34	1.1878-005	1.2518-005	126	3.0311-007	6.9438-007
36	1.2700-005	1.1437-005	128	3.0676-007	1.3349-006
38	8.2753-006	7.6648-006	130		1.2538-006
40	2.7785-006	4.8241-006	132	1.6175-007	5.8293-007
42	7.7636-007	4.7973-006	134	1.9296-007 5.9437-007	1.8884-007
44	2.9401-006	6.2116-006	136	3.943 (-00 (5.7148-007
46	5.9763-006	6.5979-006	138	1.0584-006	1.2107-006
48	6.3739-006	5.2649-006	140	1.0597-006	1.2499-006
50	3.8292-006	3.6340-006	142	5-5179-007	6.6433-007
52	1.0114-006	3.1540-006	142 144	1.9170-007	3-5962-007
54	4.2197-007	3.6175-006	146	6.7095-007	9.8326-007
56	1.9322-006	3.7527-006	148	1.8542-006	1.9626-006
58	3.3754-006	2.9858-006		2.7894-006	2,1069-006
60	3.0900-006	2.0486-006	150	2.6899-006	1.1245-006
62	1.4897-006	1.8517-006	152 154	1.7975-006	1.1358-007
64	2.3338-007	2.2664-006		1.0995-006	2.7056-007
66	3.0174-007	2.3804-006	156	1.2053-006	1.3546-006
68	1.1660-006	1.7605-006	158	1.6935-006	1.9186-006
70	1.6653-006	1.0066-006	160	1.6849-006	1.1809-006
72	1.3058-006	9.2040-007	162	9.3430-007	2.3365-007
74	5.5514-007	1.4405-006	164	1.3823-007	9.0399-007
76	1.0277.007	1.7362-006	166	1.3087-007	3.4429-006
78	1.3760-007		168	9.6392-007	5.8517-006
80	3.6781-007	1.2929-006	100	1.9345-006	5.8822-006
82	4.9341-007	5.5691-007	172	2.4250-006	3.5359-006
84	4.6385-007	3.3577-007	174	2.4885-006	1.1300-005
86	3.5268-007	7-7039-007	176	2.5551 306	7.6102-007
88	1.9814-007	1.1983-006	178	2.7805-006	2.0734-006
90	4.4615-008	1.0270-006 4.5540-007	180	2.9177-006	2.9177-006
<i>_</i>	**************************************	マ& ブラサいやしひ /			

X = 17Q = 2.656522

θ	I ₁	I3	θ	I,	I ₂
0	1.3278-003	1.3278-003	92	4.6685-007	6.7048-007
2	1.2216-003	1.2189-003	بآؤ	3.7928-007	6.5129-007
4	9.4560-004	9.3735-004	96	1.2425-007	2.7981-(107
6	6.0336-004	5.9131-004	98	5.6983-009	4.2517-008
ě	3.0380-004	2.9263004	100	2,8296-007	1.4812-007
10	1.1106-004	1.0439-004	102	7.2259-007	3.0209-007
12	2.8499-005	2.6731-005	104	8.3892-007	2.2553-007
14	1.7979-005	1.9252-005	106	5.4445-007	6.1057-008
16	3.3176-005	3.5537~005	108	2.6946-007	7.7834-008
18	4.3505-005	4.5871-005	110	3.6688-007	2.1132-007
20	3.9554-005	4.1371-005	112	6.6182-007	1.9035-007
22	2.5880-005	2.6942-005	114	7.6138-007	2.9680-008
24	1.1454-005	1.2306-005	116	6.0747-007	5.4244-008
26	3.2995-006	5.1010-006	118	4.5986-007	3.6353-007
28	3.5292-006	6.7/331-006	120	4.2586-007	5.8452-007
30	8.9461-006	1.2521-005	122	3.4971-007	3.8784-007
32	1.3443-005	1.5440-005	124	1.4566-007	4.3418-008
34	1.2581-005	1.2557-005	126	3.0573-008	1.1785-00?
36	7.1284-006	6.8235-006	128	1.4920-007	6.5486-007
38	2.0887-006	3.4690-006	130	2.8282-007	1.0333-006
40	1.6917-006	4.4969-076	132	2.0141-007	7.9758-007
42	5.2208-006	7.1759-006	134	1.5587-007	3.1357-007
1:1:	8.0698-006	7.6924-006	136	6.0344-007	2.6878-007
46	6.8694-006	3922-006	138	1.4027-006	6.8685-007
48	2.9935-006	2.8768-006	140	1.7398-006	8.9482-007
50	6.2792-007	2.4712-006	142	1.1738-006	5.4363-007
52	1.8526-006	3.6464-006	144	4.4225-007	1.9891-007
54	4,5060-006	4.2078-006	146	7.0554-007	5.5494-007
56	5.0873-006	3.2106-006	148	2.0195-006	1.3381-006
58	2.9002-006	1.8310-006	150	3.1146-006	1.5492-006
60	5.4580-007	1.4972-006	152	2.9579-006	8.4103-007
62	5.0660-007	2.0616-006	154	2.0808-006	1.0049-007
64	2.2826-006	2.2965-006	156	1.821/5-006	2.8639-007
66	3.3758-006	1.6868-006	158	2.4668-006	1.0693-006
68	2.4698-006	9.8277-007	160	2.8158-006	1.2683-006
70	7.4803-007	9.7150-007	162	1.8978-006	6.3375-007
72	8.7276-008	1.3737-006	164	4.4287-007	4.8427-007
74	7.8566-007	1.3597-006	166	6.7306-008	2.0762-006
76	1.5801-006	7.9084-007	168	1.1909-006	4.7096-006
78	1.4543-006	3.7502-007	170	2.4769-006	6.1723-006
80	7.0216-007	6.0201-007	172	2.5155-006	5.1693-006
82	1.8922-007	1.0458-006	174	1.4641-006	2.7373-006
84	1.9745-007	9.9653-007	176	5.5894-007	9.1006-007
86	3.6553-007	4.5805-007	178	4.0989-007	4.4498-007
88	4.1391-007	9.9852-008	180	5.0995-007	5.0995-007
χ,	4.2604-007	3,0133-007			

X = 18Q = 2.583614

θ	Iı	I.	θ	I ₂	I2
0	1.5937-003	1.5937-003			
2	1.4158-003	1.4386-003	92	9.8856-007	3.9480-007
4	9.8028-004	1.0470-003	94	3.7773-007	7.0368-008
6	5.0680-004	5.9227-004	96	3-1746-007	3.1838-007
8	1.8026-004	2.4057-004	98	7-4158-007	6.2693-007
10	4.8535-005	6.4597-005	100	6.3634-007	5.0343-007
12	4.1869-005	3.2418-005	102 104	8.0180-008	1.6155-007
14	6.4726-005	6.1021-005	104	2.0533-007	5.7983-008
16	6.6200-005	8.1644-005		1.1051-006	1.7622-007
18	4.6102-005	7-1125-005	108	1.4882-006	1.8757-007
20	2.3244-005	··2417-005	110 112	8-4431-007	6.2754-008
22	9.6708-006	1.7560-005	114	3.8095-007	5-5518-008
24	6.1694-006	8.0341-006	114	1.0042-006	1.8139-007
26	8.3223-006	1.1144-005	118	1.7573-006	1.8309-007
28	1.1416-005	1.7091-005	120	1.4374-006	4-3510-008
30	1.2331-005	1.7897-005	120	6.3720-007	7.8206-008
32	1.0323-005	1.2500-005	124	6.7699-007	3.6537-007
311	6.9212-006	5.7942-006	126	1.2812-006	5.0980-007
36	4.6413-006	3-1535-006	128	1.1028-006	2.6107-007
38	5•0936-006	5-3465-006	130	2.2178-007	5.4484-009
40	7-5529-006	8.3742-006	132	1.2749-207	2.2140-007
42	9.2124-006	8.1936-006	134	1.0283-006	6.9165-007
44	7•7667-006	5.0153-006	136	3.3066-006	7-9130-007
46	4.3004-006	2.4307-006	138	4.8711-007	4.7425-007
48	2.5926-006	2.7903-006	140	6.0422-007 2.9231-006	3.5720-007
50	4-5235-006	4.6206-006	142		6.9340-007
52	7.2160-006	4.9767-006	144	5.0994-006 4.1863-006	9.0371-007
54	6.5372-006	3-2782-006	146	1.4955006	5-3233-007
56	2.8722-006	1.6514-006	ปีเล	1.2726-006	1.2467-007
58	9.0328-007	1.7856-006	150	4.3605-006	4.7115-007
60	3.1024-006	2.8294-co6	152	6-5758-006	1,2706-006
62	6.0936-006	2•9366-006	151	4.8906-006	1.4095-006
64	5-3953-006	1.8834-006	156	2.3.059-006	6.2807-007
66	1.8216-006	1.0719-006	158	2.4813-006	1.1964-008
68	2.0065-007	1.3075-006	160	4.9498-006	3.9436-007
70	2.3649-006	1.7798-606	162	4.8103-006	1.08/16-006
72	4.7472-006	1.5124-006	164	1.5461-006	1.0416-006
74	3.8174-006	8.3694-007	166	2.3558-007	8.0158-007
76	1.0076-006	7-1244-007	168	3.7034-006	2.0075-006
78	1.1571-007	1.1590-006	170	7-5322-006	4.8953-006
80 80	1.6,65-006	1.2841-006	172	6.2862-006	7.4444-006
82 84	2.8286-006	7.4036-007	174	1.8136-006	7.7567-006
84 86	1.8255-006	2.6239-007	176	6.6755-007	6.4606-006
00 00	3.3649-007	4-9585-007	178	4-2525-006	5.7157-006
88	2.6505-007	1.0037-006	180	6.7781-006	6.2639<006
9G	9-9735-607	9.6146-007		1107-000	6.7781-006

4

H. B. HOWELL

X = 19

Q = 2.274454

θ	I,	I ₂	θ	I	I.
0	1.5930-003	1.5930-003	92	1,2004-007	9.6066-007
2	1,3833-003	7.4030-003	بآو	1.5383-007	1.5549-036
4	8.8297-004	9.4196-004	٠ و	3,1020-007	9.7005-007
6	3.7282-004	4.5223-004	98	2.2446-007	1.4350-007
ě	7.1993-005	1.3553-004	100	5.3921-008	2.5130-007
10	9.3186-006	3.6950-005	102	8.5539-009	8.2435-007
12	6.6982-005	6.6838-005	104	9.7047-009	7.7609-007
14	1.1485-004	1.0865-004	106	1.2914-008	2.4311-007
16	1.0194-004	1.0529-004	108	9.8358-008	9.2522-008
18	5.3318-005	6.7687-005	110	1.6802-007	3.2631-007
20	1.5229-005	3.1219-005	112	1.2478-007	2.9619-007
22	9.8122-006	1.5744-005	114	2.7460-007	3.9320-008
24	2.5678-005	1.7368-005	116	8.3571-007	1.1949-007
26	3.7015-005	2.2251-005	118	1.2187-006	4.2351-007
28	2.9886-005	2.1148-005	120	7.8438-017	3.5908-007
30	1.2985-005	1.4036-005	122	2.0086-007	8.4420-008
32	4.1857-co6	6.5569-006	124	7.2710-007	2.8576-007
34	9.0741-006	3.8721-006	126	2.0157-006	7.9054-007
36	1,6676-005	6.3326-006	128	2.2394-006	7.2579-007
38	1.5527-005	9.6221-006	130	9.6185-007	1.4641-007
40	7.5492-006	9.3007-006	132	1.1726-007	9.4926-008
42	2.6942-006	5.5313-006	134	1.0270-006	7.5111-007
44	4.6871-006	2,6370-006	136	2.2028-006	1.0281-006
46	7.9363-006	3.5982-006	138	1.8681-006	5.4986-007
48	7.0161-006	6.2759-006	140	1,1333-006	4.5309-007
50	3.3792-005	6.4734-006	142	2.1997-006	1.2891-006
52	1.4529-006	3.7442-006	144	4.3235-006	1.7523-006
54	2.2676-006	1.7716-006	146	4.5331-006	8.8060-007
56	3.4320-005	2.8655-006	148	2.3503-006	2.6553-008
58	3,1627-006	4.7519-006	150	7.6124-007	7.4504-007
60	1,9001-006	4.2685-006	152	1.6486-006	1.9477-006
62	8.4090-007	2.0775-006	154	3.0683-006	1.5644-005
54	6.3328-007	1.2683-006	156	2.6094-006	2.1939-007
66	1.1996-006	2.4621-006	158	1.0160-006	3.2684-007
68	1.7883-006	3.2074-006	160	3.5970-007	1.7513-006
70	1.5177-006	2.1581-006	162	5.8856-007	1.8608-006
72	5.2591-007	1.0049-005	164	4.4263-007	6.6684-007
74	3.2836-008	1.3605-006	166	3.3331-007	1,9925-006
76	6.5475-007	2.1519-006	169	1.3992-006	7.1561-006
78	1.3998-006	1.7196-006	170	2.6072-006	1.1051-005
80	1.1321-006	6.9858-007	172	2.0295-006	8.5755-006
82	2 2788-007	7.6746-007	174	7.7271.007	2.7398-006
84	9.5734-008	1.6671-006	176	2.1333-006	1.2439-006
ફ્ક	6.4665-007	1.6904-006	178	6.1494-006	5.4603-006
88	9.3223-007	6.6059-007	180	8.4378-006	8.4379-006
90	5.3983-007	2.0517-907			

X = 20Q = 2.140107

θ	I ₁	Ia	6	1,	Ŀ
0	1.7071-003	1.7071-003	92	5.6479-007	1.7274-006
2	1.4520-003	1.4252-003	بآو	6.5261-007	1.6045-007
4	8.5914-004	7.9280-004	96	£.8656-007	7.4569-007
6	2,9549-004	2.3899-004	95	1.7119-008	2,2359-006
8	2.2200-005	1.8143-005	100	9.5502-008	1.7544-006
10	2.9613-005	5.6768-005	102	2,1921-007	2.1665-007
12	1.2832-004	1.3535-004	104	1,5025-007	3.3470-007
14	1.5791-004	1.3220-004	106	4.3332-008	1.4917-006
16	1.0063-004	7.5352-005	108	7.2648-008	1.2930-006
18	3.2955-005	3.3543-005	110	1.4095-007	1.9107-007
20	1.4412-005	2.6415-005	112	9.2150-008	1.7683-007
22	3.5985-005	3.1561-005	214	2.7225-008	7.8816-00
24	5.2940-005	2.9308-005	136	2.705-007	4.8359-007
26	4,1338-005	1.9846-005	118	7.059-007	3.6056-009
28	1.6070-005	1.1844-005	120	1.0312-006	5.8882-007
30	3.9511-006	9.4930-006	122	6.9462-207	1.0744-006
32	1.1150-005	1.0347-005	124	1.4957-007	3.6069-007
34	2.0971-005	1.0631-005	126	3.5027-007	1.6472-007
36	1.8277-005	9.9149-006	128	1.3277-006	1.6834-006
38	7.1429-006	9.6842-006	130	1.8579-006	2.5762-006
40	1.5861-006	9.4413-006	132	3.2024-006	1.1410-006
42	5.6529-006	7.6295-006	134	3.4897-007	2.8627-008
կկ	1.0277-005	6.3748-006	136	5.2768-007	1.5346-006
46	7.9645-006	7.4080-006	138	1.2854-006	3.0203-006
48	2.3681-006	9.0313-006	140	1.4149-006	1.8228-006
50	8.5657-007	7.5606-006	142	2.1864-006	5.7472-007
52	3.7084-006	4.4343-006	144	1.8743-005	2.1441-006
54	5.3958-006	4.4447-006	146	3.2701-006	3.6545-006
56	3.4035-006	7.1679-006	148	3.6324-006	1.8667-006
58	7.6217-007	7.2048-006	150	2.4076-006	2.0619-009
ଓଡ	5.5779-007	3.7158-006	152	1.1409-006	1.9440-006
62	1.9715-006	2.1417-006	154	1.0566-006	4.2458-006
64	2.5121-006	1,.5694-006	156	1.4280-006	2.3358-006
66	1.5511-006	6.0656-006	158	1.1985-006	5.4446-003
<i>6</i> 8	4.0512-007	3.5978-006	160	6.8364-007	3.0513-006
70	2.3004-007	1.2378-006	162	5.9998-007	7.0705-006
72	8.6437-007	2.4935-006	164	6.8235-007	4.8186-006
74	1.3248-006	4.2185-006	166	4.2867-007	1.0429-006
76	9.7245-007	2 • 8782 • 006	162	2.5060-007	6.3403-006
78	2.3188-007	8:9494-007	170	8.2275-007	1.7185-005
80	5.1099-008	1,5868-006	172	2,0723-006	1.9417-005
82	5 . 9739 - 007	2.9793-006	174	3.6645-006	7.6231-006
84	9.9695-007	2.0148-006	176	5.6257-006	6.4472-008
86	6.4155-007	4.5057-007	178	7.6264-006	4.0598-006
88	8.8363-008	1.1805-006	180	8.5304-006	8.5304-006
90	1.2712-007	2.5618-006		* = ·	

X = 22Q = 1.861438

8	\mathfrak{I}_{2}	I_2	θ	I ₁	L
0	1.8046-003	1.8046-003	92	1.6404-006	5.2398-007
2	1.4947-003	1.5008-003	94	1.8268-006	3.8412-007
Ĭ,	8.1396-004	8.3007004	96	4.7805-007	1.2905-007
6	2.4782-004	2.6401-004	98	2.0416-007	3.2352-007
8	4.9263-005	5.5006-005	100	1.3647-006	5.4573-007
10	9.1841-005	8.6678-005	102	1.5319-006	2.6565-007
12	1.3021-004	1.2106-004	104	4.1964-007	4.8366-010
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Ϊά	4.0632-005	4.2566-005	110	5.4679-007	3.7390-007
20	7.5079-005	7.7851-005	112	5.8945-008	6.2137-008
22	7.4192-005	7.5913-005	114	1.9025-007	5.5907-008
24	3.8777-005	4.1336-005	116	5.1384-007	2.0124-007
26	1.3476-005	1.9740-005	118	2.8612-007	2.1271-007
28	1.8356-005	2.6830-005	120	7.9949-008	1.0676-007
30	3.0739-005	3.6569-005	122	5.4863-007	5.1624-008
32	2.6032-005	2.8232-005	124	1.2069-006	1.0521-007
34	9.8960-006	1.3091-005	126	1.2583-006	1.2280-007
36	3.1356-006	9.5726-006	128	6.2921-007	2.1073-008
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42	9.4094-006	8.8507-006	134	1.1698-006	9.8667-007
44	1,7167-006	5.1165-006	136	1.3434-006	6.7557-007
46	3.4973-006	7.1611-006	138	1.1569-006	1.5983-007
48	9.6000-006	8.3871-006	146	1.5827-006	1.9528-007
50	8.5039-006	5.6886-006	142	2.0268-006	4.8832-007
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54	1.1030-006	3.7962-006	146	1.7867-006	4.4300-007
56	5.6423-006	4.3569-006	148	3.6165-006	6.0357-007
58	6.6004-006	3.3721-006	150	5.0350-006	4.3648-007
60	2.4461-006	2.5529-006	152	4.6122-006	5.8351-008
62	4.7019-007	2.5742-006	1,54	3.8668-006	3.4005-007
64	2.7456-006	2.2289-006	156	3.7219-006	9.9539-007
66	3.9442-006	1.6401-006	158	2,3980-006	9.8752-007
68	2.0533-006	1.8007-006	160	4.5440-007	9.1758-007
70	5.8757-007	2.0167-006	162	7.3229-007	1.9227-006
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74	1.9273-006	7.5885-007	166	1.05,4-006	1.7166-006
76	1.6509-006	1.1396,006	168	3.1443-007	5.7549-207
78	9.0902-007	1.1396,006 1.4200,006	170	3.6101-006	2.0036 - 3
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82	7.1881-007	4.2092-007	174	5,4755-006	4.9257~
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88	2.5299-007	4.4393-007	180	7.3114-007	7.3114-007
90	2.6567-007	3.2813-007			
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\$\begin{array}{c} 1.9928-003 & 1.8471-003 & 96 & 1.4669-007 & 6.6586-007 \\ 6 & 6.9744-004 & 6.2894-004 & 98 & 1.6047-007 & 7.1648-007 \\ 10 & 4.3646-005 & 3.0509-005 & 100 & 1.7794-007 & 1.4867-006 \\ 10 & 4.3646-005 & 3.0509-005 & 102 & 1.1863-006 & 6.3233-007 \\ 11 & 9.9575-006 & 1.2176-005 & 106 & 2.0789-007 & 3.0159-007 \\ 11 & 9.9575-006 & 1.2176-005 & 106 & 2.0789-007 & 3.0159-007 \\ 16 & 7.0668-005 & 5.5159-005 & 108 & 8.8654-007 & 1.2847-006 \\ 18 & 1.0558-004 & 9.8167-005 & 110 & 1.3498-006 & 6.4931-008 \\ 20 & 6.3566-005 & 8.4812-005 & 112 & 6.4797-007 & 6.1838-007 \\ 22 & 2.0266-005 & 4.7187-005 & 114 & 5.5037-008 & 1.4753-006 \\ 24 & 3.7994-005 & 4.0471-005 & 116 & 5.1663-007 & 6.8142-007 \\ 25 & 6.6405-005 & 5.6044-005 & 118 & 7.7905-007 & 5.5933-009 \\ 28 & 4.8134-005 & 5.2375-005 & 120 & 2.5533-007 & 3.2826-007 \\ 32 & 1.6069-005 & 1.5195-005 & 122 & 3.2683-007 & 3.2826-007 \\ 32 & 1.6069-005 & 1.5195-005 & 122 & 3.2683-007 & 3.2826-007 \\ 32 & 1.6069-005 & 1.5195-005 & 124 & 9.3156-007 & 3.8480-007 \\ 33 & 3.2686-005 & 2.4751-005 & 126 & 4.9190-007 & 1.6637-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 5.7459-006 & 132 & 3.7388-006 & 2.9459-007 \\ 40 & 7.6049-006 & 6.4804-006 & 140 & 0.952-006 \\ 40 & 1.5932-006 & 1.9452-006 & 140 & 0.952-006 \\ 40 & 1.6948-005 & 0.8608-006 & 140 & 0.952-006 \\ 40 & 1.5048-005 & 0.8608-006 &	2			Of 25		
6 6,9744-004 6.2894-004 98 1.6047-007 7.1648-007 10 4.3646-005 1.1599-004 100 8.77794-007 1.4867-006 10 4.3646-005 3.0509-005 102 1.1863-006 6.3233-007 12 7.9175-006 1.2725-005 104 5.6762-007 1.0509-007 14 9.9575-006 1.2726-005 106 2.0789-007 1.5019-006 10 7.0668-005 5.5159-005 108 8.8654-007 1.2847-006 18 1.0558-004 9.8167-005 110 1.3498-006 6.4931-008 18 1.0558-004 9.8167-005 110 1.3498-006 6.4931-008 12 2.0266-005 4.7187-005 112 6.4797-007 6.1838-007 22 2.0266-005 4.7187-005 112 6.4797-007 6.1838-007 22 2.0266-005 4.7187-005 114 5.5037-008 1.4753-006 22 2.0266-005 4.7187-005 114 5.5037-008 1.4753-006 22 2.0266-005 4.7187-005 116 5.1663-007 6.8142-007 3.22 2.0266-005 4.7187-005 116 5.1663-007 6.8142-007 3.02 4.419-005 118 7.7905-007 5.5933-009 22 1.6069-005 1.5195-005 120 2.5533-007 3.2826-007 3.02 4.419-005 120 2.5533-007 3.2826-007 3.02 4.419-005 120 2.5533-007 3.2826-007 3.02 4.6669-005 1.5195-005 122 3.2663-007 3.9403-008 34 3.2668-005 2.1751-005 126 4.9190-007 1.6637-007 3.6 2.6341-005 2.4551-005 128 1.7958-007 3.9403-008 34 3.2668-005 2.1751-005 120 2.5533-007 3.2826-007 3.6 2.6341-005 2.4551-005 128 1.7958-007 3.9403-008 3.8448-007 3.6 2.6341-005 2.4551-005 128 1.7958-007 3.9403-008 3.8488-007 3.251-007 3.8638-007 3.3251-007 3.8638-005 3.8488-007 3.251-007 3.8688-005 9.8803-006 134 2.0521-006 1.0363-007 3.6 3.6488-005 9.8803-006 134 2.0521-006 1.0363-007 3.6 3.6488-007 3.3251-007 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-006 3.0068-0068-0068-0068-0068-0068-0068-0068	4				1.640.007	1,0014-006
8 1,6\(^10\)30-004 1.15\(^10\)90-004 100 8.77\(^10\)4.36\(^10\)6-05 3.05\(^10\)90-005 102 1.16\(^10\)30-007 1.4\(^10\)5-007 1.7\(^10\)90-007 1.7\(^10\)90-007 1.7\(^10\)90-007 1.7\(^10\)90-007 1.7\(^10\)90-007 1.7\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.5\(^10\)90-007 1.6\(^10\)90-007 1.5\(^10\)90-007 1.6\(^10\)90-007 1.6\(^10\)90-007 1.6\(^10\)90-007 1.6\(^10\)90-007 1.6\(^10\)90-007 1.6\(^10\)90-007 1.6\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1.9\(^10\)90-007 1	6		6.2894-004		1.4009-00;	
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70 8.0914-607 1.7027-006 162 1.1298-007 2.5732-006 72 2.5226-007 3.5454-006 164 4.6398-007 9.4039-006 74 1.4561-006 3.0762-006 166 6.1933-007 9.4039-006 76 1.7979-006 1.0645-006 168 8.3739-007 2.062-006 78 5.6971-007 2.1606-006 170 2.0153-006 1.7139-006 80 6.0128-008 3.2854-006 170 2.0153-006 1.7139-006 82 9.4009-007 1.3733-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 174 6.2836-006 6.9125-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 85 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005					1.0404-006	2.4290-006
72 2.5226-007 3.5454-006 164 4.6398-007 9.4039-006 74 1.4561-006 3.0762-006 166 6.1933-007 9.4039-006 76 1.7979-006 1.0645-006 168 8.3739-007 2.062-006 78 5.6971-007 2.1606-006 170 2.0153-006 1.7139-006 80 6.0128-008 3.2854-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 174 6.2836-006 6.9125-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005			1 7027 006		3.8796-007	
74 1.4561-006 3.0762-006 166 6.1933-007 9.9489-006 76 1.7979-006 1.0645-006 168 8.3739-007 2.0062-006 78 5.6971-007 2.1666-006 170 2.0153-006 1.7139-006 80 6.0128-008 3.2854-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 174 6.2836-006 6.9125-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005		2-5226-007	3 Sheh-006		1.1298-007	
76 1.7979-006 1.0645-006 168 8.3739-007 2.0062-006 78 5.6971-007 2.1606-006 170 2.0153-006 1.7139-006 80 6.0128-003 3.2854-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 172 4.0982-006 9.0791-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.501½-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005	74	1.4561-006	3.0762-006			9.4039-006
78 5.6971-007 2.1606-006 170 2.0153-006 1.7139-006 80 6.0128-008 3.2854-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 174 6.2836-006 6.9125-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005	76		1 06/15-006			9.9489-006
80 6.0128-008 3.2854-006 172 4.0982-006 9.0791-006 82 9.4009-007 1.3733-006 .74 6.2836-006 6.9125-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005			2 3606-006			
82 9.4009-007 1.3733-006 2.74 6.2836-006 6.9125-006 84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 189 1.2959-005			2.10c0=000	110	2.0153-006	
84 1.3217-005 8.3487-007 176 8.7255-006 3.5014-007 86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005 1.2959-005			1 2722-006		4.0902-006	
86 5.4259-007 2.5572-006 178 1.1546-005 6.0553-006 88 2.4274-010 2.0380-006 180 1.2959-005 1.2059-005						0.9125-006
88 2.4274-010 2.0380-006 180 1.2959-005 1.2059-005		5.4259-007	2.5572-006			3.5014-007
1,24740107 1,204021814	88	2-4274-010	2.0380-006			6.0553-006
	90	4.1136-007	4.8351-007	100	1.2979-005	1.2959-005

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X = 26

9	I ₁	I ₂	θ	I,	I ₂
0	6.3573-003	6.3573-003	92	9.2718-007	1 2091 000
2	5.1985-003	5.2015-003	94	2.9419-007	1.3911-007
4	2.7451-003	2.7540-003	96	2.0187-008	6.7113-007
6	8.0928-004	8.2097-004	98	3.1032-007	9.5570-007
8	7.5408-005	8.4710-005	100	9.1742-007	2.3790-007
10	1.7017-005	2.2337-005	102	7.7020-007	1.5109-007
12	6.8509-005	6.5558-005	104	1.4207-007	6.3915-007
14	9.9723-005	8.5746-005	106		4.2489-007
16	9.5266-005	7.7837-005	108	8.8931-007	1.0910-007
18	4.0470-005	3.6380-005	110	1.9113-006 1.0886-006	2.5443-007
20	1.6285-005	2.2256-005	110	1.0000-000	1.9862-007
22	6.3562-005	6.0828-005	114	4.5745-007	1.7747-007
24	8.6658-005	7.6919-005	116	1.5719-006	5.5514-007
26	4.1077-005	4.2910-005	118	1.7513-005	4.6390-007
28	1.4038-005	2.5564-005		3.9996-007	1.0588-008
30	4.0560-005	4.4093-005	.120 122	1.9417-007	4.4502-007
32	4.8561-005	4.6066-005	124	8.4573-007	1.1644-006
34	1.8060-005	2.4289-005	126	4.9509-007	7.3627-007
36	7.5430-006	1.8343-005	128	3.2780-007	6.2890-008
38	2.4320-005	2.6744-005		1.0809-006	4.2969-007
40	2.2676-005	2.2231-005	130	8.1896-007	9.1146-007
42	4.9866-006	1.1729-005	132	1.1650-007	8.3034-007
44	5.7004-006	1.2243-005	134	1.7484-906	9.2503-007
46	1.5862-005	1,5012-005	136	4.0235-006	9.2839-007
48	1.0348-005	1.0678-005	138	3.1958-006	3.8099-007
50	1.1594-006	6.7603-006	140 142	1.1454-006	4.3604-007
52	5.0960-005	7.3832-606		1.9373-006	1.2981-006
54	9,3900-006	7.5246-006	144 144	4.3652-006	1.3828-006
56	4.0026-006	5.6853-006	146	5.1835-006	5.1715-007
58	6.5613-007	4.3339-006	148	4.8335-006	1.3824-008
60	4.2768-006		150	4.8784-006	2-5177-007
62	5.0265-006	4.1302-006 4.0517-006	152	4.3460-006	7.1122-007
64	1.2467-006	3.2619-006	154	2.3209-006	9.4347-007
66	7.8305-007	2.4454-006	156	9.1080-007	1.0604-006
68	3.4526-006	2.5334-006	158	1.5759-006	1.4526-006
70	2.8910-006	2.5534-006 2.5474-006	160	1.6910-006	1.7386-006
72	2.8233-007	1.6451-006	162	2.3426-007	2.0191-006
74	9.8866-007	1.4845-006	164	5.8950-007	3.3943-006
76	2.9803-006	1.6771-006	166	2.3012-006	4.2799-006
78	1.7152-006	1.1687-006	168	1.8886-006	2.1898-006
80	4.5144-009	9.5230-007	170	2.7666-006	3,4085-008
82	1.2530-006	1.1710-006	172	7.8561-006	1.1794-006
84	2.1348-006	7.3075-007	174 200	1.0093-005	2.5172-006
86	6.8371-007		176	6.0873-006	1.7472-006
88	4.8880-008	5.3037-007	178	2.6054-006	1.5795-006
90	8.6761-007	1.0376-006	180	2.1073~006	2.1073-006
<i>y</i> •	0.0101-001	7.3192-007			

X = 28Q = 2.278066

θ	I ₁	I_2	8	I,	I2
		m 000(000	92	1.2188-006	3.7949-007
Q	7.2726-003	7.2726-003	94	9.8411-008	1.1296-006
2	5.5778-003	5.6129-003	96	2.6586-007	1,8080-006
4	2.3100-003	2,3698-003	98	6,6730-007	3.1280-007
6	3.3263-004	3.9561-004	100	4.3508-007	6.3455-007
8	9.6980-005	1.1216-004	102	1,4759-007	1,6593-006
<u></u> 0	2.9717-004	2-8753-004	104	3.3138-008	5.3875-007
12	2.2782-004	2.2033-004	106	4.9174-007	2.2846-007
14	6.9150-005	7.2255-005	108	1.0261-006	9.1640-007
16	1.0088-005	1.2845-005		4.0137-007	5.4654-007
18	3.7673-005	2.7314-005	110	5.0466-007	4.1140-007
20	7.5904-005	6.6896-005	112	2.1604-006	4.6986-007
22	5.6176-005	6.5816-005	114	1.7588-006	1.9047-007
24	2-9957-005	3.1576-005	116	4.0608-007	7.8956-007
26	3.9438-005	3.8616-005	118	2.0620-006	1.0900-006
28	6.2413-005	6.5482-005	120	2.0020-000	2.2144-007
30	3.5548-005	4.7963-005	122	2.7086-006	3.0799-007
30 32	1.8500-005	2.4454-005	124	3.6078-007	1.2694-006
3r	3.60'10-005	3.5849-005	126	7.3378-007	1.1586-006
36	3.3194-005	3.8511-005	128	2.0974-006	4.3598-007
20	1.3965-005	1.9599-005	130	8.6960-007	4.3390-001
38 40	1.6454-005	1.7336-005	132	2.3096-006	2.9495-007
	2.4164-005	2.4235-005	134	4,1858-006	6.7487-007
42	1.3727-005	1.5932-005	136	1.2653-005	1.1402-006
44	6.5641-005	8.9742-006	138	2.8970-006	1,2080-006
46		1.2671-005	140	9.7792-006	8.3298-007
48	1.2529-005	1.1656-005	142	8.0317-006	4.1509-007
50	1.2492-005	6.8592-006	144	2.7279-006	1.7970-007
52	4.9450-006	6.7960-006	146	5.5836-006	0.0573-007
54	4.8477-006	7.0300-006	148	7.5081-006	1.1077-006
56	8.6598-006	5.4312-006	150	4.3002-006	3,6463-007
58	5.1659-006	4.6500-006	152	5.1277-006	2.4782-007
60	1.6091-005	4.2108-006	154	6.2550-006	1,6518-006
62	5.1022-006	4,1277-006	156	2.0613-006	1.6870-005
6 1 ;	5.5324-006	3,6841-006	158	8.9052-008	2.5625-006
65	9.2158-007	3,0041-000	160	1.3137-006	5.6123-006
68	2.0007-006	2.5098-006	162	4.4499-007	3.8228-006
70	5.1892-006	2.9734-006	164	1.1744-006	6.1761-007
72	2.0952-006	3,2716-006	165	4.0375-006	4.1209-006
74	1.9905-007	1.7264-006	168	2.6472-006	4.4444-0Co
76	3.3851-006	1.9001-006	170	6.2051-007	5.3913-008
78	3.1749-006	2.6065-006	172	4.6946-006	4.9278-006
80	1.8362-007	1.3832-006	174	9.2464-006	9.7886-006
82	1,2118-006	1.3745-006	7 (4 3 2 C	8.36)9-006	3.7254-006
84	2.7820-006	1.8243-006	176	6.0952-006	2.2322-006
86	9-7593-007	8.7526-007	178	5.5433-005	5.5433-006
88	8.9340-008	1.3019-006	180	7.7433-003	747.33 444
40	1.3743-006	1.5959-006			

X = 30 Q = 1.998410

θ	I,	I ₂	θ	I ₁	T
0	7.3805-003	7.3805-003			I3
2	5.1723-003		92	1.1285-006	7.5849-007
4	1.4307-003	5.1804-003	94	8.6229-008	5.6792-007
6		1.4459-003	96	1.0525-006	8.4515-007
8	4.8033-006	5.5788.006	98	1.1621-006	3.7220-007
10	3.9452-004	3.7700-004	100	1.1588-007	3.4650-007
12	4.8292-004	4.7251-004	102	5.7745-007	1.1928-006
12 14	1.3674-004	1.5069-004	104	5-9125-007	4.2240-007
16	3.2860-005	5-0970-005	106	1.3631-008	2.2149-007
	1.2394-004	1.1396-004	108	1.3322-007	1.4131-006
18	1.3224-004	1.0405-604	110	2.9565-008	6.4800-007
20	4.6167-005	3.9442-005	112	5.0486-007	8.5107-008
22	1.6817-005	2.2396-005	114	6.4107-007	1.0143-006
24	7.9861-005	6.1795-005	116	2.6139-007	5.6695-007
26	8.1502-005	6.3763-005	118	1.9672-006	2.6979-007
28	1.8992-005	2.8754-005	120	2.2285-006	5.7700-co7
30	3.5672-005	3.8390-005	122	4.3229-007	2.7360-007
32	6.6502-005	5.4611-005	124	2.2686-006	1.3930-006
34	2.4829-005	3.2116-005	126	3.3177-006	1.6417-006
36	1.4108-005	2.6255-005	128	4.7344-607	
38	4.1994-005	3.7555-005	130	9.6949-007	1.0068-607
40	2.2412-005	2.6080-005	132	2.4956-006	1.7379-006
42	4.6055-006	1.7363-005	134		3-2546-006
44	2.3102-005	2.3065-005	136	1.5695-606	1.1241-006
46	1.7903-005	1.9062-005	138	4.0383-006	9.3785-007
48	2.0710-006	1.2524-005	140	5.2321-006	1.8802-006
50	1.1138-005	1.3453-005	140	1.6693-006	1.2129-006
52	1.2192-005	1.2168-005	144	4.7100-006	2.0948-000
54	1.5829-006	9.0286-006	146	1.0794-005	1.9505-006
56	5.4737-006	8.4070-006	148 148	7.6580-006	5.4871-008
58	9.5027-006	7.6942-006		3.8567-006	1.2232-006
50	1.6049-006	6.1913-006	150	5.2063-006	1.8867-006
62	2.2166-006	5.1787-006	152	3.6067-006	4.0724-007
64	5.8248-006	4.8313-006	154	1.8475-006	1.7498-006
66	2.1009-006	4.4341-006	156	2.9912-006	2.8564-006
68	4.9510-007	3.3964-006	158	1.3540-006	2.9582-006
70	3.2117-006		160	7-3946-007	6.6429-006
72	2.2008-006	2.7702-006	162	2.8829-006	7.0280-006
74	1.3325-007	3.0452-006	164	2.1910-006	1.5519-006
76	1.3627-006	2.6137-006	166	3.7950-006	4.8627-007
78	1.8765-006	1.5941-006	168	6.6923-006	1.5484-006
80	3.6322-007	1.8292-006	170	2.4159-006	7.3577-007
82		2.0356-006	172	3.8976-007	6.6952-006
84	3.9227-007	1.0765-006	174	4.2621-006	1.2550-005
86	1.5213-006	1.0417-006	176	3.4005-005	7-2536-006
88	7-7335-007	1.3873-006	178	2,0028-006	2,6090-006
90 90	4.2214-008	8.1059-007	180	3.1678-006	3.1678-006
70	1,2568-006	7.4562-007		•	3

X = 32Q = 1.964189

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		I_2	θ	I,	I_2
0	8,9926-003	8.9926~003	92	1.1333-006	1.5091-006
2	6.2270-005	6.2160-003	94	3.1374-008	7 1202 007
4	1,7569~003	1.7261-003	96	1.2662-006	7-1302-007
6	1.8814-004	1,5090-004	98	1.6703-006	5.4628-007
8	3.8221-004	3.6196-004	100	2.6526-007	7.8659-007
10	2.1031-054	2.1823-004	102		3.0742-007
12	6.6039-005	7:9337-005	104	1.3735-006	9.0358-007
14	2.3744-004	2.3154-004	106	1.5725-006	2.1301-007
16	2.1489-004	2.0588-004	108	2.4042-007	5-5727-007
18	5.7011-005	6.1777-005	110	7.9450-007	1.3261-006
20	5.1289-005	5.1668-005	110	5.4125-607	8.0324-008
22	9-7233-005	9-2936-005	112	1.3313-008	9.1984-007
214	5.5629-005	5.9587-005		2.2356-007	1.2239-606
26	1.6250-005	2.3250-605	116	3.7754-008	1.1890-008
28-	4,8345-005	5.3526-005	118	8.5844-607	6.9585-007
30	5.2970-005	5.8426-905	120	6.8850-007	5.9611-007
32	1.6773-005	2.4925-005	122	1.2813-006	3.7934-007
34	2.8834-005	3.7011-005	124	2.9541-006	5.7032-007
36	4.1918-005	4.4916-005	126	8.5466-007	2.2611-007
38	1.4280-005	2.0156-005	128	1.8045-006	1.8486-006
40	1.8477-005	2.5626.005	130	3-9639-006	1.8419-006
42	3.2369-005	2.5616-005	132	8.0304-007	1.0315-007
44	1.0838-005	3.1522-005	134	2.1075-006	2.0313-006
46	1.1047-005	1.4591-005	136	3.1894-006	2.9221-005
48	2.2967-005	1.6538-005	138	2.9914-006	1.0903-006
50	6.8891-006	1.9029-005	140	1.0071-005	1.1980-006
52	7.5972-006	1.0020-005	142	7-9392-006	9.1227-007
54	1.6645-005	1.1267-005	144	2.9869-006	8.7848-007
56	3.4903-006	1.2431-005	146	1.0909-005	2.0890-006
58	5.9080-006	6.4746-006	148	1.1085-005	5.4093-007
60	1 1960 005	7.6108-006	150	6.1582-006	7.6115-007
62	1.2860-005	8.1598-006	152	6.9753-006	2.8600-006
64	1.8594-006	4.3927-006	154	2.4079-006	1.6716-006
66	4.4211-006	5.0495-006	156	6.1694-007	3.4831-006
68	9.0585-006	5.0992-006	158	2.2726-006	4.4308-006
70	1.0406-006	3.1705-006	160	4.4663-008	1.8514-006
	2.9741-006	3.6988-006	162	2.3987-006	6.4604-006
72	5.3141-006	2.8546-006	164	3.1874-006	6.3431-006
74 76	5.1698-007	2.4220-006	166	3.3960-006	1.4776-007
76 70	1.8177-006	3.0001-006	168	9.9646-006	7.4110.001
78	2.7730-006	1.3960-006	170	6.9901-006	2.4399-006
80	3-9017-007	2.0704-006	172	1.5340-007	1.3585-006
82	8.4872-007	2.3196-006	174	3.5929-006	7.4920-006
84	1.4983-006	6.1389-007	176	3.9489-006	2.5024-005
86	6.2493-007	1.8916-006	178	4.5465-007	1.8521-005
88	1.4010-007	1.4949-006	180		2-5949-006
90	1.0754-006	4.0284-007	100	1.6165-007	1.6165-007

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6	I,	Ig	θ	Iz	I3
0	1.6280-002	1.6280-002	92	6.3050-008	2,0522-006
2	1.1177-002	1.1187-002	بآؤ	7.7295-007	1.5786-006
Ų	3,2208-003	3.1786-003	96	6.7864-007	3.1672-007
6	2.9664-004	2.1454-004	98	8.4545-008	1.8742-006
8	7.4199-005	6.5182-005	100	2.6284-007	5.1266-007
10	1.5934-005	1.0632-005	.102	1.2119-006	6.9100-007
12	2.8878-004	2.4490-004	104	6.4164-007	7.7443-007
14	2.7098-004	2.8388-004	106	1.2822-006	4.1723-007
16	5.0960-005	1.0306-004	108	2.2165-006	9.8662-007
18	1.2683-004	1.3662-004	110	9.0924-007	2.3497-008
20	1.6056-004	1.4718-004	112	2.0308-006	1.5420-006
22	3.9988-005	5.6196-005	114	3.2339-006	9.4001-007
24	4.4650-005	4.6606-005	116	3.6227-007	4.3158-007
26	1.0272-004	6.8360-005	118	8.9972-007	2.2191-006
28	4.0245-005	4.0330-005	120	3.9421-008	2.7334-007
30	2.9116-005	2.9653-005	122	1.7018-006	9.1734-007
32	7.5141-005	4.6614-005	124	3.1734-007	1.0814-006
34	2.8285-005	3.5226-005	126	2.7989-006	7.2061-007
36	2.6374-005	2.8231-005	128	5.7434-006	1.6468-006
38	5.3582-005	3.7381-005	130	1.8786-007	2.8156-007
40	1.5459-005	2.9643-005	132	5.3210-006	4.3579-005
42	2.1568-005	2.2821-005	134	7.2031-006	3.4865-006
44	3.1597-005	2.7191-005	136	2.1282-006	5.0850-007
46	7.7825-006	2.3146-005	138	7.4436-006	4.9707-006
48	1.6632-003	1.6659-005	. 40	5.0916-006	2.7357-006
50	1.6251-005	1.9783-005	2	9.1591-006	2.2428-006
52	4.1018-006	1.5720-005	. ,	1.7197-005	2.2084-006
54	1.1294-005	1.1302-005	.6	5.9974-006	4.2351-007
56	8.8445-006	1,5426-005	148	6.2139-006	4.3095-006
58	2.3044-006	9.3888-006	150	1.0445-005	9.5634-007
60	6.7583-000	8.1477-006	152	3.6166-006	2.4684-006
62	5.6920-006	1.1277-005	154	3.1315-006	5.9222-006
64	1.1174-006	5.1554-006	156	8.7751-007	4.3619-006
66	4.6564-006	6.7133-006	158	2.4278-006	1.1229-005
68	3.8310-006	6.7111-006	160	4.1446-006	5.8760-006
70	3.9706-007	3.3066-006	162	1.4489-006	1.3315-006
72	4.2406-006	5.4490-006	164	6.1123-006	5.9982-006
74	2.1066-006	3.1602-006	166	2.9351-006	3.8109-007
76	6.2242-007	3.1550-006	168	1.6764-006	6.0368-006
78	4.2043-006	3.5889-006	170	4.5053-006	5.8040-006
80	8.9988-007	1.5313-006	172	8.9971-007	5.2446-006
82	1.5072-006	3.2269-006	174	7.7889-006	2.6317-005
84	3-5064-006	1.5850-006	176	8.3987-006	1.7308-005
86	3.3637-007	1.5143-006	178	5.3539-006	3.1610-006
88	1.6698-006	2.6750-006	180	9.4565-006	9.4565-006
90	1.8766-006	4.1063-007			

X = 36Q = 2.365363

θ	I ₁	I ₂	8	I,	_
0	2.1075-002	-		_	Is
2	1.4165-002	2.1075~002	92	4.9588-007	7.2297-007
4	3.6150-003	1,4105-002	94	1.0232-006	1.4719-006
6	8.1808-005	3.5569-003	96	1.2960-006	2.4219-008
8	1.8353-004	8.7406-005	98	7.6432-008	1.6729-006
10	2.3455-004	1.6472-004	100	2.9153-007	5.0542-007
12	2.2974-004	2.0709-004 2.1824-004	102	8.7001-007	6.0333-007
14	5.3363-005	6.4108-005	104	5.3326-007	1.0749-006
16	1.3101-004	1.4138-004	106	6.3691-007	5.7076-009
18	2.5624-004	2.3578-004	108	2.0297-006	5.3901-007
20	6.1270-005		110	1.5139-006	3.3559-008
22	8.2224-005	8.4574-605 8.9348-005	112	1-7243-006	4.0225-007
24	1.5052-004	1.3247-004	114	2.2159-006	3.1808-008
26	4.2997-005	4.7640-005	116	1.3757-006	9.6445-007
28	4.5740-005	5.4350-005	118	7.5070-007	5.5584-007
30	8.5691-605	7.9282-005	120	5.7955-007	8.2386-007
32	1.9400-005	3.0001-005	122	1.5658-007	1.5350~006
34	3.7359-005	4.8012-005	124	3.8792-007	1.2672-008
36	5.2631-005	5.0565-005	126	1.0750-006	1.0934-006
38	7.0106-006	2.0975-005	128	2.2684-007	5.7282-007
40	3.5707-005	4.1003-005	130	4.3579-006	1.5277-006
42	2.8386-005	2.7933-005	132 134	3.3407~006	7-5952-007
44	5.5068-006	1.9429-005	134 136	4.3464-007	1.5810-006
46	3.0447-005	2.7839-005	138	6.4237-006	4.9569-006
48	9-3337-006	1.4169-005	130 140	5-1035-006	9-5939-007
50	1.0360-005	1.7797-005	140	6.5603-006	1,7531-006
52	2.0843-005	1.5421-005	142 144	6.6538-006	2.4143-005
54	1.4073-006	9.8608-006	146	6.1394-006	1.2233-006
56	1.2873-005	1.2080-005	148	1.5346-005	1.4022-006
58	9•3483-006	8.5625-006	150	1.0519-005	2.2515-007
60	1.3987-006	€.0861-006	152	4.7379-006	4,0721-006
62	9-5945-006	6.3050-006	154	4.2055-006 1.8685-006	1.7035-006
64	2.3528-006	6.4209-006	156	1.8019-006	3-1364-006
66	2.9078-006	5.0806-006	158	1.4167-007	5.7113-006
68	5-1778-006	3.8776-005	160	3.0716-006	4.8645-006
7 0	5.4412-007	4.8090-006	162	4.4667-006	9.9304-006
72	2.7771-006	2.3898-006	164	6.8706-006	2.5908-006
74	3.0087-006	3-5907-006	166	5.9014-006	1.2215-006
76	7.7623-008	2.3801-006	168	2.5396-007	1.8349-006
78	2.6976-006	1.8860-006	170	1.4020-006	5.2187-006
80	2.2767-006	2-5937-006	172	1.2704-007	1.3576-005
82	2.0129-007	9.6740-007	174	6.2522-006	1.5284-005
84	3,4608-006	1.9675-006	176	1.3298-005	9-9006-006
86	1.4350-006	8.4337-007	178	7.9030-006	1.1949-005
88	9.8412-007	1.3260-006	180	4.2927-006	9.2586-009
90	2-9742-006	6.2949-007	200	T#4741=000	4.2927-006

X = 38

θ	I ₁	Is	θ	I ₁	I ₂
0	2.3261-002	2.3261-902	92	2.0524-007	7 (001 000
2	1.3593-002	1.4196-002	92 94	3.4510-006	7.6087-007
4	1.6696-003	2.2327-003	9 6	1.7786-006	1.9984-006
6	3.3119-004	2.9656-004	98	1.6091-006	3.1965-007
8	7.6553-004	8.2946-004	100	2.6761-006	2.0939-006
10	1.9598-004	2.3248-004	102	1.1835-007	9.2856-007
12	1.0195-005	1.1168-005	104	1.1250-006	9.8593-007
14	1.4607-004	7.5951-005	106	1.7973-007	2.1868-006
16	2.5064-004	2.1428-004	108	3.9769-007	2.5350-008
18	8.1481-005	1.2118-004	110	6.3137~007	1.7012-006
20	1.4996-004	1.2909-004	112	3.0663-006	2.2845-007
22	1.4453-004	1.9090-004	114	1.6738-006	4.9342-007
24	4.1748-005	8.4061-005	116	5.3832-006	9.5383-008
26	8.5260-005	9.3420-005	118	3.0568-006	6.5534-007
28	6.2350-005	9.8163-005	120	4.2048-006	2.7935-007
30	2.8165-005	3.8531-005	122	2.3960-006	9.6884-007
32	5.9394-005	5.8705-005	124	1.4398-006	9.5414-007
34	3.4262-005	4.6142-005	126	1.3012-006	8.2865-007
36	3.0950-005	2.2840-005	128	2.1877-006	8.8134-007
38	4.5657-005	4.4957-005	130	7.10[[-U00	9.9096-008
40	2.3972-005	2.3065-005	132	4.9128-006 1.2383-006	5.9369-007
42	2.9424-005	- 2.3128-005	134		1.0237-006
44	3.0453-005	3.0974-005	136	1.5237-005	2.8173-006
46	1.6300-005	1.2597-005	138	3.2984-006 1.0194-005	9.2702-008
48	2.6772-005	2.6182-005	140	1.3381-005	4.8476-006
50	1.7009-005	1.4581-005	142	1.3680-005	3.0915-006
52	1.2380-005	1.4316-005	144	2.2065-005	1.2885-006
54	2.3991-005	1.8687-005	146	6.2575-006	1.4642-006
56	4.2121-006	7.5926-006	148		1.5677-006
58	1.8107-005	1.5085-005	150	2,2914-005 1,2381-005	2.4289-06
60	9.6194-006	7.5870-006	152	1.2301-003	5.9674-007
62	6-2612-006	9.9074-006	154	4.2352-006 1.9977-006	6.2159-005
64	1.5047-005	7.6407-006	156	3.2931-006	3.8785-006
66	4.5819-007	6.3306-006	158	4.6831-006	8.9971-006
68	1.3742-005	7.2161-006	160	3.6860-006	3.8652-006
70	3.0163-006	4.0408-006	162	1.3872-005	6.8952-006
72	5.8464-006	6.1814-006	164	4.4688-006	7-4741-006
74	7.6947-006	2.7124-006	166	1.0604-005	2.5983-007
76	2.9583-007	5,2820-006	168	1.5818-006	3.5705-006
78	5.8101-006	2.0840-006	170	9.5768-006	5.6809-006
80	1.1346-005	3.7808-006	172	3.7451-006	2.5645-005
82	1.2735-006	2.7266-006	174	1.4872-005	7.7650-006
84	2.1780-006	1.7366-006	176	2.9388-005	7.4891-006
86	8.6178-007	2.9985-006	178	2.7012-005	1.0986-005
88	7-2575-007	9.2174-007	180	5.1139-005	1.8060-005 5.1139-005
90	3-1154-006	2.1956-006	200	70**37**107	7+1139-005

X = 40Q = 1.987636

θ	I ₁	Ia	θ	I,	T _e
0	2.2796-002	2.2796-002	00		
2	1.2321-002	1.2086-002	92	1.8524-008	1.4715-006
4	8.0704-004	6.8554-004	94	1.0238-065	5.3816-007
6	8.7014-004	9.0336-004	96	9.3573-007	1.1202-006
8	9.5478-004	6.8323-004	98	3.9228-007	3.2035-007
10	6.5715-005	6.9765-005	100	1.6887-006	5-5513-007
12	2.5292-004	2.3001-004	102	3.6737-007	4.7847-007
14	2.6713-004	2.4120-004	104	9.0882-007	9-4553-007
16	5.1775-005	6.2134-005	106	5.1451-007	5.7010-007
18	1.1521-004	1.3395-004	108	2.1147-008	1.7986-006
20	2.3252-004	2.0527-004	110	4.5506-008	5.7350-007
22	5.0348-005	6.6876-005	112	5.6105-007	1.5436-006
2lt	1.5507-004	1.4408-004	114	6.7450-007	3.0078-007
26	1.3253-004	1.0338-004	116	1.4244-006	5.4679-007
28	3.7199-005		118	3.3522-006	4.5695-008
30	1.2755-004	5.5050-005	120	1.6189-006	3.6698-007
32	3.3524-005	9.7207-005	122	3.4195-006	7.2849-007
34	5.927&-005	4.1989-005	124	2.5322-006	1.8792-006
36	6.3748-005	6.1624-005	126	2.9875-007	5.1454-007
38		5.3108-005	128	1.9843-006	3.6017-006
40	1.1993-005	3-5007-005	130	1.0457-166	2.5823-007
42	5.7847	4,8125-005	132	4.8093-0.6	2.2784-006
44	1.1307-005	2-9737-005	134	4.6599-007	1.1785-006
46	3.0022-005	3.5177-005	136	9-4352-006	5.3465-006
48	2.2956-005	2.7067-005	138	1.0074-005	1.5279-006
50	8.0218-006	2.4390-005	140	4.1807-006	3.9125-006
	2.6729-005	2.2688-005	142	1.1786-005	5.1590-006
52 51:	2-4641-006	1.9683-005	144	1.1554-005	7.1540-007
54	1.6303-005	1.4612-005	146	1.5315-005	1.2038-006
56	7.2145-006	1.7590-005	148	6.5440-006	2.5495-006
58	5-3976-006	9.9642-006	150	5.5264-006	4.1705-005
60	9.6307-006	1.3002-005	152	6.2861-006	2.2921-006
62	9.7615-007	8.4602-006	154	1.3785-006	1.1765-005
64	7.7807-006	8.5413-006	156	1.3565-007	7.1587-006
66	2.2423-006	7.8694-006	158	3.1961-006	1.0278-005
63	3.0317-006	4.7721-006	160	5.2081-006	8.3691-007
70	5.5313-006	7.3041-006	162	4.2436-006	4.7609-006
72	5.5685-008	2.6139-006	164	2.6786-006	8,4675-007
74	5.3651-003	5•5573-006	166	2.5886-006	8.8573-006
76	1.2422-006	1.9319-006	168	9.5768-007	4.5391-006
78	2.1345-006	4.0334-006	170	7-1536-007	1.4013-005
80	2.9297-006	1.2072-006	172	2.5294-006	1.0820-005
82	1.2937-007	3.5296-006	174	6.4135-006	4.2863-006
84	2.4403-006	6.8907-007	176	1.9510-005	1.6281005
86	3.3589-007	2.8301-006	178	2.1551-005	
88	7.4416-007	1.0338-006	180	1.8388-005	1.4713-006
90	1.1877-006	1.5503-006		-10300-009	1.8388-005

X = 42Q = 2.053203

8	I ₁	$\mathbf{I}_{\mathbf{g}}$	θ	1,	l _a
0	2.9192-002	2.9192-002	92	1.7936-006	2.5361-006
2	1.5449-002	1.5871-002	94	1.2215-006	1,2121-007
4	1,2651-003	1.5116-003	96	5.7334-007	2.0394-006
6	7.6519-004	6.9675-004	98	9.0665.007	1.7300-007
8	3.1302-004	3-2909-004	100	2.4099-006	1.0343-006
10	3.6012-004	3.3291-004	102	6.7274-007	2,8564-007
12	4.9253-004	5.4383-004	104	4.6952-006	
14	8.2643-005	1.0247-004	106	7.1665-007	7.1993-007
16	8.8192-005	1.1037-004	108	4.0007-006	1.4955-007 1.4604-006
18	1.9360-004	1.8682-004	110	3.4384-007	0.6305.000
20	8.2968-005	6.6608-005	112	1.6897-006	9.6105-008
22	1.3902-004	1.3501-004	114	1.7373-008	1,7825-006
24	1.7058-004	1.5839-004	116	2.4590-006	4.4009-007
26	5.1612-005	7.2162-005	118	1.1571-006	7.0436-007
28	1.3798-004	1.5009-004	120	5.7907-006	4.2174-007
30	5.3544-005	6.7057-005	122	3.3133-006	9.8618-008
32	6,3882-005	9.0893-005	124	4.3602-006	2.6259-008
34	6.3068-005	7.2104-005	126	3.3941-006	6.4548-007
36	1.7013-005	4.2830-005	128	3.2141-007	1.2187-006
38	6.0241-005	6.5529-005	130	1.1512-006	1.4815-007
40	9.7438-006	2.5001-005	132	5.5044-008	1.7405-006
42	4.0021-005	4.6298-005	136	6.2723-006	8.9401-007
154	1.9211-005	2.3229-005	136	2.3465-006	6.5782-007
46	2.0654-005	2.5580-005	138	6.3274-006	6.6772-007
48	3.0873-005	2.1493-005	140	1.3081-005	3.2761-006
50	6.0207-006	1.6859-005	142	1.2004-005	1.8036-006
52	3.3368-003	1.9203-005	144	1.2811-005	6.3691-007
54	2.1035-006	1.1795.005	146	1.6947-005	1.7800-006 7.9782-007
56	2.6557-005	1.3996-005	148	2.4512-005	
58	4.0383-006	9.6066-006	150	9.4598-006	4.7639-008 3.7328-006
දිට	1.7684-005	1.0021-005	152	6.3087.006	
62	7.9920-006	8.0642-006	154	2.8277-006	3.6024-006 4.2142-006
64	7.9630-006	6.8008-006	156	2.5041-006	5.1247-006
66	1.0668-005	6.8805-006	158	4.7666-006	8.7114-006
58	2.3833-065	5.1822-006	160	1.2462-005	5.0023-006
70	8.7401-006	4.8431-006	162	1.4099-005	2.5486-007
72	3.1250-006	4.7840-006	164	1.3017-005	1.7144-006
716	4.4618-006	3.0068-006	166	9.8238-007	9.8443-006
76	6.1137-006	3.8982-006	168	5.0679-006	8.7626-006
78	1.2052-006	2.2858-006	170	8.0800-006	
80	7.7173-006	2.7128-006	172	1,7635-005	3.6725-006 6.4690-006
82	3,3141-008	1.9444-006	174	3.8711-005	3.5483.006
84	7.2882-006	2.1949-006	175	3.3244-005	2.3860-005
છડ	2.8626-007	1.2962-006	178	9.2089-006	2.5000-005 2.6586-005
88	4.9668-006	2.3679-006	180	1.9925-005	1.9925-005
90	1.0217-006	5.3528-007	200	>>->	エ・ファニット・レンフ
	-				

X = 44Q = 2.354626

θ	I ₁	I_2	e	I,	$\mathbf{I}_{\mathcal{G}}$
0	4.6184-002	4.6184-002	92	1.2751-006	4.9242-006
2	2.4755-002	2.3660-002	94	2.41.77-006	7.9253-008
4	2.4286-003	1.8237-003	9 6	2.9252-007	5.4732-006
6	1.8055-004	1.6985-034	98	1.6589-006	2.4976-008
8	3.7124-005	6.4548-005	100	3.2439-007	5.1404-006
10	7.4111-004	7.1498-004	102	5.7850-007	6.6054-008
12	2.5712-004	2.2213-004	104	1.5581-006	2 1225 000
14	2.3511-004	2.3208-004	106		3.4315-006
15	3.2670-004	2.2713-004	198	5.4666-007	1.4801-007
18	4.2630-005	7.0165-005	110	2.7422-006	1.7625-006
20	1.6537-004	1.6604-004		1.3180-006	1.0950-006
22	1.4030-004	1.4540-004	112	2.2312-006	1.9900-006
24	5.8784-005	1.1682-004	114	1.2155-006	2.5262-006
25			116	5.7052-907	2.7484-006
28	1.8255-004	1.4676-004	118	1.9180-007	2.2039-006
30	4.2999-005	8.6817-005	120	1.6232-006	1.3108-006
	1-3759-004	9.3530-005	122	6.4364-007	8.6669-007
32	5.7071-005	6.5922-005	124	5.1284-006	2,2828-007
34 24	7.7857-005	5.3326-005	126	3.6313-006	1.6358-006
36	6.9876-005	5.5692-005	128	3.7150-006	2.0120-006
38	3.5052-005	3.6832-005	130	6,6222-006	3.9475-006
40	6.3339-005	4.3688-005	132	1.5673-006	1.3460-006
42	1.6333-005	3.4924-005	134	5.6601-006	4.1856-006
44	5.0777-005	3.4780-005	136	7.6376-006	3.2315-006
46	9.4801-006	3.5290-005	138	1.5340-005	3.2654-006
48	3.3530-005	2.5747-005	140	4.8246-006	6.7871-006
50	1.0724-005	3.6455-005	142	2,4864-005	7.6817-006
52	1.7940-005	1.8381-005	144	1.3497-005	2.4382-006
54	1.1561-005	3.2819-005	146	1.4203-005	2.8945-006
55	e . 9865-006	1.4353-005	148	7.7190-006	6.1996-006
58	1.2213-005	2,7789-005	150	1.1519-005	1,1181-006
60	3.1342-006	1.0935-005	152	4.0604-006	1.3809-005
62	1.2516-005	2.2600-005	154	4.0649-007	1.0970-005
64	3.0212-007	8.9272-006	156	1.4477-006	1.7129-005
66	9.8453-006	1.6375-005	158	1973-006	3,6236-006
68	1,5683-006	8.3628-006	160	3.7777-096	1.4775-005
70	5.9844-006	1.1285-005	162	7.9877-006	2.2165-007
72	2.7599-006	7.7115-036	164	6.2754-005	3.7413-005
74	3.0530-006	8.1528-006	166	3.4463-007	1.0558-005
76	3.6358-006	5.6452-006	168	1.4803-006	
78	1,0142-006	5.5352-006	170	7.1613-006	3.9000-005
80	4,1176-006	5.6888-006	172	1.2334-005	9-7955-008
82	4.5432-008	3,9011-006	174	2-3746-006	2.0788-005
84	3.9232-005	5.0127-006	176		1.3894-005
86	4.5 1-007	2.1250~006	178	5.4455-005 2.3184-005	9,3181-005
88	2.,,58-006	4.6732-006	180		3-3942-005
90	3,8170-006	7.5114-007	700	2,9910-005	2.9910-005

X = 46

θ	I ₁	I ₂	θ	I,	I2
0	5.1752-002	5.1762-002	92	1.9563-006	7.6393-007
2	2.6245-002	2.6302-002	94	3.8544-006	6.2731-007
Ļ	1.6295-003	1.6757-003	96	1.2823-006	1.2235-006
6	5.1883-004	5.0858-004	98	3.1745-006	2.1213-007
8	4.4447-004	4.0349-204	100	2.7469-007	1.7075-006
10	3.6350-004	3.4625-004	102	1.3754-006	3.1480-007
12	1.0887-004	1. 2639-004	104	2.6550-007	1.6312-006
14	5.6380-004	5.4541-004	105	7.7177-007	3.6160-007
16	1.5071-004	1.7381-004	108	2.3616-006	8.3943-007
18	1.8658-004	2.0219-004	110	2.0557-006	1.6975-007
20	2.1527-004	1.9441-004	112	4.5727-006	4.0190-007
22	3.8570-005	5.9846-005	114	2.0812-006	2.3701-007
24	2.0913-004	1.7915-004	116	3.4401-006	1.3154-006
26	6.1970-005	6.9978-005	118	3.7863-007	4.1244-007
28	1.4236-004	1.3430-004	120	8.2141-007	2.2363-006
30	9.1017-005	9.0532-005	122	1.1334-006	4.6134-008
32	8.1572-005	9.4910-005	124	1.4438-006	1.2780-006
34	9-5175-005	9.1855-005	126	3.2088-006	5.4533-007
36	3.7008-005	6,1494-005	128	5.1592-006	6.4121-007
38	8,0017-005	7.6525-005	130	8.1286-007	1.4817-006
40	1.6396-005	4.3045-005	132	6.3624-006	3.5605-006
42	6.2545-005	5.8399-005	134	2.4672-006	2.8447-007
44	6.3936-006	2.9590-005	136	4.5861-006	4.0198-005
46	4.8417-005	4.3459-005	138	7.2087-006	2.2878-006
48	3.5606-006	2.2258-005	140	1.6920-005	1.3053-006
50	3.3212-005	2.9502-005	142	7-1559-006	1.7916-006
52	3.5949-006	1.7956-005	144	1.7225-005	2.5402-006
54	2.3005-005	2.0499-005	146	1.9731-005	8.6347-008
56	3.7930-006	1.3740-005	148	1.2306-005	3.0225-006
58	1.5994-005	1.4413-005	150	5.6969-006	3.1795-006
60	5.3840-006	1.1088-005	152	4.6528-006	3.7548-006
62	9.4746-006	9.4448:006	154	1.6134-006	7.9751-006
614	6.8868-006	9.0216-006	156	2.5853-006	1.0778-005
65	4.8694-006	6-4946-006	158	7.3676-006	2.8712-006
68	6.7799-006	6.4851-006	160	1.0671-005	8.4461-007
70	2.5716-006	5.1907-006	162	4.7109-006	1.4600-006
72.	6.1814-006	4.1949-006	164	3.9966-006	5.5794-006
74	1.3387~005	4.3524-006	166	7.8796-007	3.8382-006
76	5.8538-006	2.5960-006	168	4.0509-006	1.2679-005
78	3.7204-007	3.6076-006	170	4.0406-006	1.3990-006
80	5.0158-006	1.5406-006	172	2.0387-005	2.5633-006
82	2.3889-008	3.0437-006	174	2.3531-006	6.2711-006
64	3.5524-006	9.1973-007	176	8.7203-006	3.9775-005
86	8.1080-007	2.4300-006	178	1,0642-006	1.8597-005
88	2.5401-006	6.6308-007	180	4.6594-006	4.6594-006
90	2.5656-006	1.5261-006		,,	

X = 48Q = 2 102044

9	1,	I ₂	θ	I ₁	I2
0	5.2799-002	5.2799-002	92	1.3544-006	5.4738-007
2	2.2742-002	2.2947-002	ģΨ	2.2899-006	4.0884-006
Ĭ,	1.9552-004	3.7587-004	96	1.0079-006	1.5639-006
6	2.0537-003	1.9500-003	98	2.8286-006	1.4048-006
8	4.0768-004	3.5463-004	100	6.8102-007	3,6684-006
10	7.4080-006	5.1305-006	102	2.4127-006	1.0131-007
12	3.9236-004	3.2471-004	10 [‡]	8.7407-008	5.2583-006
14	2.9957-004	3.6826-004	106	9.8404-007	8,0173-008
16	2.3445-004	2.4427-004	108	4.7804-007	4.2443-006
18	3.4901-004	3.3753-004	110	5,8293-007	2.3213-007
20	8.9943-005	9.9391-005	112	3.1797-006	1.3719-006
22	2.1973-004	1.7429-004	114	2.0469-006	1.3267-006
24	5.9884-005	9.3079-005	116	5.7611-006	2.5872-008
26	1.3093-004	1,1246-004	118	2.4356-006	3.3828-006
28	7.4599-005	1.2787-004	120	4.0292-006	1.2869-007
30	9.2387-005	9.4438-005	122	6.7758-007	3.1387-006
30 7,2	8.0994-005	1.2786-004	124	7.1144-007	5.9402-008
3 4	6.5686-005	7.0502-005	126	3.8024-006	7.9837-007
36	7.5653-005	1.0595-004	128	5.7790-907	1.2303-006
38	4.8564-005	4.9718-005	130	1.2196-005	7.9538-007
40	6.1432-205	7.2413-005	132	1.7113-006	1.1282-006
42	3.4344-005	3.4224-005	134	1,2870-005	2.5451-006
44	5.1641-005	5.0798-005	136	6.9971-005	5 . 3973 - ∞7
46	2.1715-005	2.3875-005	138	1.7316-005	1.0211-006
48	4.1081-005	3.3996-005	140	9.1136-006	3 7997-006
50	1.4159-005	1.9878-005	142	3.7921-005	7.8562-007
52	3.2231-005	2.2808-005	շ ևկ	1.1631-005	9.8208-007
54	7.8912-006	1.7027-905	146	2.4047-005	1.3875-006
56	2.7715-005	1.6986-005	148	1.3111-005	1.6020-007
58	3.4650-006	1.4134-005	150	1,2288~005	6.7224-006
60	2.3584-005	1.3392-005	152	2.4390-008	6.0961-096
62	1.7015-006	1.1839-005	154	2.5366-006	1.0070-005
64	1.8427-005	1.1276-005	156	2.9424-006	4.9570-006
66	1.1992-006	9.0461-006	158	6.8790-006	1.5427-005
68	1.4056-005	1.0523-005	160	1.5470-005	7.4276-008
70	9.0442-007	5.9528-006	162	8.8859-006	4.8622-006
72	1.1034-005	1.0095-005	164	1.6135-007	1.6704-055
74	5.0451-007	3.9705-006	166	6.8641-007	1.7253-005
76	8.5032-006	8.5019-006	168	8.8030-006	1,1888-005
78	7.7250-008	3.7257-006	170	2.1159-006	3.0859-006
80	5.9362-005	5.6212-006	172	7.3524-006	3.0495-005
62	7.0559-008	4.9600-006	17 ¹ '	1.1780-005	1.9857-006
84	3.6089-006	2.7803-006	176	1.0716-005	8.5317-005
86	5.3181-007	6.4038-006	178	2.5028-005	8.6655-006
88	2.1492-006	9.8912-007	180	2.5109-005	2.5109-005
90	1.3273-006	6.2580-006			

X = 50Q = 1.979886

0	I,	Is	θ	I,	I2
0	5.4756-002	5.4756-002	92	1,6046-006	5.7830-007
2	2.0843-002	2.0679-002	94	1.4508-007	2.3030-006
4	2.0678-004	1.4184-004	96	6.6273-007	1.6042.007
6	2.3670-003	2.3678-003	98	6.6261-007	1.6788-006
ě	9.5814-005	1.3376-004	100	1.1744-006	1.8555-007
10	5.1878-004	4.8604-004	102	1.2819-006	4.7607-007
12	3.3631-004	2.8792-004	104	1.6698-006	9.6448-007
14	7.8187-005	9.3910-005	106	8.1672-007	5.1144-009
16	5.1877-004	4.8435-004	108	7.2292-007	2.2556-006
18	1.0963-004	1.5537-004	110	1.3808-007	2.2550-000
20	3.3598-004		110		3.3672-007
22	3.3790-104	3.2277-004		6.6267-008	2.3570-006
24	1.1790-004	1.3066-004	114	2.2909-006	2.8714-007
26	1.7503-004	1.6652-004	116	1.9443-006	8.3430-007
28	1.3581-004	1.1779-004	118	5.9570-006	5.0669-007
	1.0662-004	1.0595-004	120	2.5360-006	5.2973-008
30	1.3190~004	1.0922-004	122	5.1800-006	2.5338-006
32	7.8854-005	8.7361-005	124	3.2073-007	5.0743-007
34	1.1164-004	9.8461-005	126	1.4354-006	3.8783-006
36	6.0422-005	7.5902-005	128	3.5228-006	3.0974-007
38	7.6603-005	7.6552-005	130	9.9991-007	2.2019-006
40	5.0238-005	6.5766-005	132	1.0852-005	3,5439-006
42	4.9596-005	5.8180-005	134	5.1539-006	6.9301-007
44	3.9182-005	5.1015-005	136	9.8013-006	8.2609-006
46	2.9825-005	4-3715-005	138	1.2376-005	2.1740-006
48	3.1049-005	3.8690-005	140	1.7621-005	4.0769-006
50	1.5829-005	3.1441-005	142	9.9804-006	2.6871-006
52	2.5670-005	2.8873-005	144	3.0904-005	1.8713-006
5 4	9.0161-006	2.3374-005	146	1,4196-005	2.7092-006
56	1.9080-005	2.0269-005	148	1.1313-005	4.2117-006
58	5.5289-006	1.7894-005	150	6.2453-006	4.5362-006
60	1.3300-005	1.4257-005	152	3.5757-006	9.8937-006
62	2.9771-006	1.2933-005	154	2.5472-106	1.4170-005
64	1.0340-005	1.0781-005	156	5.8266-005	3.2634-006
66	1.4234-006	8.81.47-006	158	£.9802-006	3.8117-006
68	8.8633-006	7.8968-006	160	5.7459-006	4.6411-007
70	7.9082-007	6.1710-006	162	8.1492-005	4.1185-006
72	7.4505-006	5.6655-006	164	1.2910-006	1.1808-005
74	6.7251-007	4.5474-006	166	3.6049-006	1.5719-005
76	6.3271-006	3.9952-006	168	1.0422-005	4.1579-007
78	6.8645-007	3.2168-006	170	1.2309-005	9.1437-007
80	5.5416-006	2.8938-006	172	3.3072~007	2.2250-005
82	6.0406-007	2.1622-006	174	2.4127-007	6.1429-006
84	4.5337-006	2.0879-006	176	2.2663-005	1.4179-005
86	3.5024-007	1.7994-006	178	2 0505-005	1 6069 006
38	3.1847-006	1.2940-005	180	2.0505-005	1.8968-006
90		2.0712-005	100	9.0717-006	9.0717-006
70	1.0500-007	200112-00D			

X = 55Q = 2.273920

θ	I_1	I_2	θ	I ₁	L
0	1.0577-001	1.0577-001	92	4.1299-007	8.7657-007
2	3.9280-002	3.8670-002	ρų	4.1683-006	1.4843-005
4	1.1648-004	8.7777-005	96	3.9061-006	9.7981-007
6	5.3075-004	4.8294-004	98	3.6983-006	1.5810-007
8	1.0985-003	1.0634-003	100	2.6114-006	2.3979-005
10	1.6547-004	1.9672-004	102	1.3074-006	6.0893-007
12	8.4153-004	6.0554-004	104	8.3953-007	1.6695-006
14	1.4278-004	1.4332-004	106	6.2835-007	1.8178-006
16	3.2456-004	3.0702-004	108	1.6701-006	8.4329-008
18	2.4341-004	2.4057-004	110	2,5254-006	6.2659-007
20	2.5842-004	2.7837-004	112	3.7798-006	8.5257-007
22	2.3674-004	2.3757-004	114	2,5905-005	2.7111-007
24	2.1637-004	2.3120-004	116	1.0036-006	2.3897-006
26	1.5330-004	1.5125-004	118	7.3323-007	2.0876-006
28	1.8710-004	1.7441-004	120	1.5993-006	8.4153-007
30	8.1860-005	8.9818-005	122	2.0585-006	1.4188-006
32	1.7919-004	1.4361-004	124	9.0099-006	6.1310-007
34	3-7904-005	6,7152-005	126	1.5733-006	4.2468-009
36	1.5625-004	1.1976-004	128	8.2381-006	5.3890-006
38	2.3033-005	6.0048-005	130	9.2532-007	5.8607-007
40	1.0930-004	9.1521-005	132	2.7297-006	5.9321-006
42	3.4454-005	6.0071-005	134	1.3598-005	2.6734-005
44	5.0267-005	6.0127-005	136	2.4368-006	z.4609-006
46	4.6702-005	5.6121-005	138	2.4990-005	9.8374-006
48	1.4239-005	4.0652-005	140	1.3222-005	1.5750-006
50	4.3770-005	4.3520-005	142	2.0411-005	6.6046-006
52	4.0264-006	3.1028-005	144	2.7129-005	1.7423-005
54	2.9792-005	3.1048-005	146	2.2222-005	2.3526-006
56	5.2809-006	2.21:49-005	148	1.0288-005	6.8542-006
58	1.6207-005	2.3587-005	150	9.1221-006	9.2940-006
60	9.6991-006	1.5152-005	152	4.2229-007	1.3893-005
62	6.7253-co6	1.7065-005	154	5.8808-006	1.3480-005
64	1.2746-005	1.2599-005	156	6.6651-006	1.4727-006
66	1.4987-006	9.8368-006	158	1,1577-005	3.8876-005
68	1.2061-005	1.1639-005	160	9.1145-006	5.4245-006
70	2.3089-007	5.4901-006	162	3.4424-006	1.0294-005
72	8.9005-006	7.9865-006	164	5.5904-006	2.2662-005
74	1.4418-006	5.4623-006	166	1.0450-005	7.5542-007
76	5.2050-006	3.6073-006	168	9.4375-006	1.0902-006
78	4.2206-006	5.4675-006	170	1.2833-006	2.2226-005
80	1,9622-006	2.5865-006	172	1.0939-006	4.6518-006
82	6.3483-006	2.7052-006	174	9.7548-006	9.9140-006
84	3.3557-007	3.8882-006	176	7.8743-006	2.5489-005
86	5.0787-006	6.3360-007	178	2.4908-005	1.0462-005
88	1.1460-007	3.1590-006	180	2,3346-005	2.3346-005
90	3.5057~006	1.3343-006			

X = 60

Q = 1.997938

θ	I ₁	I2	θ	I,	L
0	1.1532-001	1.1532-001	92	1.9451-006	-
2	2.8303-002	2.7877-002	94	1.6788-006	2.4793-007
4	2.7702-003	2.7198-003	96	2.3655-007	1.7357-006
6	1.0449-003	1.0275-003	98	0 1023 002	2.6013-006
8	9.1088-004	8.7877-004	100	9.4377-007	1.1406-007
10	5.3245-004	5.0637-004	102	2.8961-007	1.7767-006
12	1.8402-004	2.1182-004	104	2.3656-006	9.1188-007
14	7.9248-004	7.4416-004		8.0941-007	9.2419-008
16	2.3932-004	2.5324-004	106	2.4054-005	2.9577-003
18	4.5479-004	4.2474-004	108	8.5158-007	1.5952-006
20	1.6725-004	7.0167.00h	110	5.1340-007	2.0516-006
22	2.8890-004	1.9167-004	112	1.6509-007	1.3992-006
24	2.1069-004	2.8356-004	114	2,9761-006	1.6101-006
26	1.6814-004	2.3169-004	116	3.7585-006	4.3000-007
28	2.8641-004	1.7037-004	118	5.7868-006	2.4028-007
30		2.5082-004	120	5.8203-006	8.6016-007
32	6.2085-005	9.6052-005	122	1.2677-006	2.0896-006
34	2.4384-004	1.8806-004	124	1.3997-006	3.4516-006
3 4 36	7.4570-005	1.0514-004	126	3.3485-006	1.8844-007
30	1.0498-004	1.0212-004	128	8.4286-007	7.8720-007
38	1.3083-004	1.2086-004	130	1.4187-005	3.2581-006
40	2.0030-005	6.5913-005	132	1.8629-006	3.4052-006
42	1.0371-004	8.9255-005	134	9.9333-006	4.3813.006
44	4.0210-005	6.8381-005	136	1.4556-005	6.8543-006
46	3,0172-005	5.5256-005	138	1.3792-005	5.0786-006
48	6.6496-005	5.7608-005	140	3.3607-005	1.8649-006
50	7.6984-006	4.1307-005	142	2.4504-005	1.0103-005
52	3-5333-005	4.2712-005	144	3.2863-005	3.2144-007
54	2.5569-005	3.6032-005	146	2.4375-005	3.7284-006
56	5.8347-006	2.9038-005	148	2.0117-005	7.5666-006
58 60	2.7333-005	2.8216-005	150	6.39,4-006	1.4589-005
60	4.4432-006	1.4577-005	152	1.3214-006	1.5688-005
62	1.3237-005	2.1803-005	154	8.7443-006	7.8954-005
64	1.2447-005	1.4947-005	156	7.6580-006	5.0469-036
65	1.1396-006	9.1420-006	158	1.3867-005	1.7631-007
68	1.3417-005	1.2653-005	160	6.5060-006	1.2778.005
70	4.1752-006	9.3488-006	162	1.5824-006	2.3606-005
72	4.2017-006	5.0474-006	164	1.0444-005	8.5163-007
74	1.0622-005	6.8860-006	166	5.6273-005	1.8320-006
76	6.4492-008	6.1339-006	168	3.5343-006	1.4555-005
78	7.1621-006	2.7994-006	170	6.9786-007	1,0518-005
80	1.8012-006	3,3699-006	172	2.4692-006	5.6353-006
82	2.7918-006	4.8157-006	174	1.8453-005	5.4154-006
84	4.0223-006	1.1451-006	176	2.8115-207	3.3193-005
દત	5.4134-007	1.9535-006	178	7,7605-006	3.6171-005
88	4.6635-005	2,0445-006	180	3.1039-006	3.1039-006
90	9.9089-007	1.6115-006	****	344037-000	2+1023-000
	• •				

X = 65Q = 2.218942

θ	I ₁	I³	θ	I.1	.ĩ. ₃
0	1.9694-001	1.9694-001	92	3.4891-006	1.9515-007
2	4.5597-002	4.5682-002	94	7.1715-007	2.0950-006
4	1.1894-003	1.1864-003	96	4.9150006	1.3351-006
6	1.0274-003	8.9608-004	98	4.2589-006	3.6482~007
8	5.3152-004	5.5065-004	100	2.5408-006	1.3239-007
10	1.3737-003	1.3418-003	102	4.8080-006	6.2974-007
12	1.7260-004	1.8636-004	104	1.1669-006	2.5982-006
14	6.1782-004	5.7363-004	106	1.2073-005	1.3323-006
16	1.9498-004	2.2532-004	108	1.5526-006	
18	7.1649-004	6.7448-004	110	2,0925-006	7•3758-007 6•5160-007
20	1.5152-004	2.0912-004	112	5.0279-006	
22	4.1050-004	4.0045-004	114	2.0188-006	4.2758-007 1.0649-006
24	2.2093-004	2.4715-004	116	3.9157-007	
26	1.3921-004	1.5927-004	118	3.4222-007	1.7904-006
ટઇ	3.3803-004	2.8603-004	120	4.8966-006	3.2402-006
30	7-4938-005	1.2053-004	122		9.4297-007
32	1.9476-004	1.6819-004	124	5.9130-006 5.9814-006	4-5753-008
34	2.2265-004	1.9885-004	126		3.3043-007
36	3.9991-005	9.2958-605	128	9.5344-006	4.6086-006
38	1.4791-004	1.3127-004	130	9-5509-007	1.5642-006
4c	1.2796-004	1.2093-004		1.7693-007	2.3049-006
42	2.0720-005	7.5490-005	132	1.1182-005	2.5469-006
44	8.6598-005	8.8212-005	134	1.6552-005	7.7114-006
46	7.3582-005	7.4904-005	136	8.5384-006	7.2039-007
48	1.0093-005	5.4649-005	138 140	2.3735-005	1.0682-005
50	4-5287-005	5.7567-005		3.8695-005	3.2146-006
52	4.3052-005	4.4695-005	142	1.8473-005	5.0382-006
54	4.5229-005	3.1907-005	144 21.6	5.1569-005	2.6833-007
56	2,9255-005		146	1.9127-005	8.8113-006
53	2.2470-005	3.9272-005	148	1.0455-005	6,2118-006
60	2.3738-006	2.5963-005	150	4.8025-006	1.7734-005
62	1.7051-005	1.8500-005	152	6.8918-006	1.5032-005
64	1.5685-005	2.1903-005	154	8.3882-006	5.0252-006
66	3.0356-007	1.7956-005	156	1 -2743-705	2.4601-006
68	1.4304-005	1.0342-005	158	1.7942-005	6.7018-00 <i>5</i>
70	9.7138-006	1.1634-005	160	5.1422-007	2.2369-005
72	3.0384-007	9.7502-006	162	6.6850-006	6.6221-006
74	9.1750-006	8.2608-006	164	8.9957-006	2.7520-006
76	5.2116-006	6.0271-006	166	8,7277006	6.4727-006
78		4.4570-006	168	6.9704-009	1.5327-005
80	4.5910-007	5.3719-006	170	5.1275-006	8.3594-006
82	7.9106-006	3.8759-006	172	2.3429-005	1.2961-006
84	4.0265-006	2.9680-006	174	4.2771-007	4.2178-005
86 86	1.3991-006	1.9876-006	176	1.3850-005	2,4531-006
83 83	7.2116-006	1.7599-006	178	5.5960-005	5.9173-006
90	1.9123-005	3.1743-006	180	1.8352-005	1.8352-005
30	1.9220-006	1.6210-006		-	-, -,

X = 70Q = 2.021466

θ	I3	I,	θ	I ₁	I ⁵
0	2.1827-001	2.1827-001	92	8.7589-007	1.1653-006
2	3.0597-002	3.0332-002	94	2.5190-006	4.6390-007
ų.	7.0073-003	6.8294-003	96	3.6284-006	1.2195-006
6	4.5704-004	5.3466-004	98	7.0278-007	3.5659-006
8	1.1382-003	1.0072-003	100	3.9242-007	1.8234-006
10	8.7456-005	1.2075-004	102	1.1560-006	7.2149-008
12	1.3104-003	1.2821-003	104	1.0277-006	8.0439-007
14	3.9316-004	4.4180-004	106	3.1645-006	3.8236-007
16	4.6964-004	4.2625-004	103	3.1176-006	1.7427-006
18	5.2245-004	1: .7774-004	110	5.2292-007	2.8337-006
20	1.7424-004	2.3166-004	112	8.8162-007	1.1437-006
22	6.0150-00 ^k	5.6676-004	114	3.0313-006	1.3742-006
24	2.7807-004	3.1749-004	116	4.9281-006	9.4315-007
26	1.4160-004	1.8681-004	118	8.7743-006	9.3750-007
28	3.9121.004	3.2186-004	120	6.2927-006	3.1096-006
30	1.6638-004	1.8093-004	122	8.2793-007	1.6179-006
32	8.7404-205	1,2146-004	121;	8.7963-007	1.5850-006
34	2.7129-674	2.0948-004	126	3,4996-006	1.5818-006
36	1.7313-003	1.6441-004	128	1.6421-005	2.7910-006
38	3.8852-005	1.0022-004	130	6.4034-006	5.6387-006
40	1.2433-004	1.2667-004	132	3.3450-006	1.6718-007
42	1.5353-004	1.3354-004	134	5.4552-006	7.5926-006
ևկ	4.0578-005	8.2980-005	136	3.6003-005	5.5362-006
46	3.1819-005	7.5880-005	138	1.8563-005	1.1883-005
48	8.1339-005	7.9270-005	140	3.6876-005	9.2768-007
50	5.3176-005	6.1544-005	142	3,5021-005	6.6840-005
52	6.8776-006	4.4308-005	144	5.7382-005	1.5558-006
54	2.9985-005	4.9705-005	146	1.4139-005	1.3629-005
56	3.8128-005	3.9900-005	148	1.3991-005	6,6730-006
58	1.1572-005	2.6905-005	150	1.1242-006	2.2347-005
60	5.7127-006	2.4080-005	152	1.3698-005	1.1865-005
62	2.5882-005	2.7105-005	154	1.0910-005	7.8910-006
64	1.4886-005	1.8237-005	156	1.9817-005	8.5501-007
66	5.5434-007	1.3213-005	158	8.7653-006	1.6937-005
<i>6</i> 8	1.0266-005	1.3605-005	160	4.3286-006	1.6892-005
70	1.5159-005	1.1358-005	162	1.1861-005	6.1730-006
72	3.2623-006	8.3414-006	164	9.2075-006	3.5972-006
74	2,7824-006	6.4916-006	166	3.0315-006	1.5278-005
76	1.3987-005	6.5714-006	168	4.9134-006	1.5108-005
78	7.4408-005	5-6497 - 006	170	2.8695-005	1.3009-007
80	5.0704-007	03-006	172	2.9468-007	4.1250-005
82	6.7730-006	2.+196-006	174	1.7165-005	7.9854-006
84	4.7312-005	1.8500-006	176	6.9899-006	6.0614-006
86	4.8571-008	4.1869-006	178	1.8236-005	5.5174-005
88	3.1675-006	3.0892-006	180	1.3487-005	1.3487-005
90	3,5133-006	9.0988-007			

X = 75Q = 2.179300

	_				
θ	1,	Ι ₂	Ą	I ₁	I2
0	3.3687-001	3.3687-001	92	3.5837-006	1,1125-006
2	4.1686-002	4.1395-002	94	4.9924-006	2.7728-008
4	4.5139-003	4.3457-003	96	1.7869006	1.4462-906
6	2.2082-003	2.0894-003	98	2.1285-006	2.1736-006
8	1.0561-003	1.1164-003	100	6.6407-006	1.0439-006
10	7.0286-004	6.3514-004	102	6.7397-006	1.4651-006
13	7.0352-004	6.9228-004	104	3,1569-006	2.6960-006
14	3.3716-004	3.6961-004	106	1.4698-005	1.7020-006
1.6	1.0542-003	1.0122-003	103	1.0604-006	6.5326-007
18	3.6038-004	3.9278-004	110	2.3184-006	6.6519-007
20	2.6874-004	2.9017-004	112	3.7176-006	1.5006-007
22	6.3597-004	5.8359-004	114	2.6145-006	1.4979-006
24	2.7061-004	3.2325-00 ^L	116	4.4501-007	4,4459-006
26	1.5119-004	2.2120-004	118	1.1937-006	3.7588-006
28	4.2906-004	3.7672-004	120	8,2338-006	6.2705-007
30	3.2656-004	2.9868-004	122	1.3973-005	3.9843-007
32	8.0129-005	1.4295-004	124	6-7663-006	1.3556-006
314	1.3840-004	1.5144-004	126	1.3090-007	1.7292-006
36	2.7637-004	2.1080-004	128	3.8334-008	4.1773-006
38	1.9285-004	1.7285-004	130	8.8943-006	2.3572-006
40	4.9101-005	1.0652-004	132	2.5594-005	8.3332-006
42	6.1130-005	1.0577-004	134	6.4756-006	7.9436-006
44	1.2787-004	1.2049-004	136	1.9255-005	2.2907-006
46	1.0933-004	1.0592-004	138	1-7212-005	7.3084-006
48	3.4649-005	7.3798-005	140	6.7646-005	6.6319-006
50	1.5416-005	6.5027-005	142	3.6217-005	1.3209-005
52	4.6871-005	6.5880-005	144 .	4.9685-005	2.7872-006
54	5.2485-005	5.3443-005	146	1.8250-005	1.3387-005
56	2.2561-005	3.7334-005	148	1.8324-005	8.4771-006
58	2,6000-006	2.9936-205	150	5.7544-007	2.5566~005
60	1.9123-005	3-5307-C05	152	1.7125-005	8.6568-006
62	2.8556-005	3.0539-00-	154	1.9379-005	8.4475-006
64	1.5682-005	2.0527-00%	156	2.0968-005	1.1232-005
66	1.1265-006	1,3238-005	158	6.3120-007	2.7252-005
68	7.2480-006	1.2136-005	160	6.6577-006	4.3121-006
70	2.0722-005	1.3875-005	162	1.4533-005	1.4266-006
72	1.3681-005	1.1501-005	164	1.4820-005	6.8930-005
74	8.5490-007	5.4465-006	166	4.1567-006	3.6071-005
76	3,2186-006	7.4894-006	168	2.9121-005	1.6954-005
78	1,0198-005	3.8344-536	170	1.2537-006	3.4646-005
80	8.3829-006	2.8223-006	172	7.9603~006	9.9909-006
82 84	9.6004-007	4.0834-00%	274	4.4615-006	3.8455-006
94 95	2:1353-006	4.1655-006	176	3.0835-006	5.1954-005
88 88	0.1716-006	3.1652-006	178	3.5072-005	5.7280-005
	6.5032-006	2.9162-006	180	1.?996-605	1.2996-005
90	1.8563-006	2.7867-006			

X = 80Q = 2.047273

ġ	I ₁	T _a	8	I ₁	I ₂
٠.	3.8178-001	3.8178-001	92	3.5183-006	1.5884-007
<u>د</u> 2	2.6561-002	2.6375-002	92 94	1.8775-006	4,2086-007
4		6.7592-003	96	1.4711-006	5.3072-007
6	6.7927-003	3.0554-003	98	2.6738-006	3.7971-008
8	3.2527-003 4.1560-004	4.1503-004	100	1.7044-006	5.9326-007
10	1.9552-003	1.9104-003	102	1.1645-007	2,4019-006
12	3.1309-001	3.6210-004	102	2.0409-006	2.3709-006
				4.7343-006	7.3002-007
14 16	7.6609-004	7.4143-004 7.9560-004	106 108		6.5535-007
18	8.0540-004	3.1814-004		3.4131-006 7.5372-007	2.7818-006
	2.6450-004	5.7626-004	110 112	2.1845-006	3.8794-006
20	5.8837-004	5.1020-004	112	4.8031-006	
22	7.2042-004	6.5502-004			2.1435-006 2.8163-007
24	2.7623-004	3.2005-004	116	4.6485-006	5.0103-001
26	1.3294-004	2.0878-004	113	5.1322-006	1.0607~006 3.6844-006
28	3.8912-001	3.6547.004	120	4.0459-006	3.0044-000
30	4.5134-004	3.8869-004	122	1.3756-006	3.8116-006 7.3203-007
32	2.4611-004	2.5820-004	124	8.7583-006	7.3203.007
34	7.9430-005	1.4614-004	126	1.7853-005	9.6515-007 2.3470-006
36	1.3250-604	1.5559-004	128	7.1237-006	
38	2.3896-004	1.9580-004	130	1.1018-007	7.1346-007
40	2.3166-004	1.9122-004	132	1.9950-007	4.3930-006
42	1.2129-004	1.4115-004	134	1.7197-005	2.5407-006
цц	3.3839-005	1.0470-004	136	4.4587-005	1.5467-005
46	2.4420-005	9.1864-005	138	3.6120-005	1.4294-005
48	6.9812-005	9.7927-005	140	7.1077-005	6.2219-006
50	8.6502-005	8.5663-005	142	3.6343-005	9.2452-006
52	6.7504-005	6.7275-005	144	6.4528-005	1.6779-006
54	2.7381-005	4.6341-005	146	1.8158-005	1.1651-005
56	8.9303-006	3.9371-005	148	1.1007-005	1.3411-005
58	2.1446-005	4.2799-005	150	7.756 -006	2.6169-005
60	3.5718-005	4.0959-005	152	1,4450-005	7.8850-006
62	3.8373-005	3.5708-005	154	2.8201-005	2.2577-006
64	2.1696-005	2.4699-005	156	1.1462-005	2.4659-005
66	2,7934-006	1.5569-005	158	2.4894-006	2.1320-005
68	1.8707-006	1.3187-005	160	8.2840-006	1.1805-005
70	1.0034-005	1.1032-005	162	2.4963-005	3.7310-006
72	1.5145-075	8,7385-006	164	9.9515-007	3.8731-005
74	1.1730-005	7.8342-006	166	2.3498-005	2.7596-006
76	2.5431-006	7.0461-006	168	4.9663-006	1.2382-005
76	1.5805-006	6.8308-006	170	1.3741-006	7,9589-006
80	8,8358-006	6.3299-006	172	3.1674-005	1.0834-006
82	1,1647-005	4.6688-006	174	5.1239-006	1.7909-006
84	5.8226-006	3.9214-006	176	9.4913-007	2.6745-005
86 00	7.9960-007	4.5650-006	178	5.6462-005	2.9081-005
88	2.1040-006	3.9518-006	180	5.7062-005	5.7052-005
90	3⊾5307-006	1.6339-006			

X = 85Q = 2.133560

8	I ₁	I²	6	I,	Ī2
0	5.3285-001	5.3285-002	92	3.7365-006	1.7574-006
2	2,6932-002	2,7373-002	94	2.4274-006	1.7685-006
4	5.4300-003	5.1407-003	96	3.5008-005	1.0148-006
6	1.0152-003	1.0607-003	98	5.0693-006	2.6673-007
8	3.1708-003	3.0417-003	160	5.1271-006	3.7951-009
10	2.6719-004	2.7371-004	102	4.8550-006	1.5937-007
12	1.0337-003	1.0028-003	104	4.3432-1006	4.6017-007
14	1.5372-003	1.4995-003	106	3.1665-006	1.0945-006
16	4.2231-004	4.7239-004	108	2.0043-006	1.6672-006
18	3.3208-004	3.6157-004	110	1,7535-006	1.0343-006
20	8.6585-004	8.1624-004	375	2.3092-006	3.5891-008
22	7.9536-004	7.6012-004	114	1.8268-095	1.1418-005
24	3.2256-004	3.9015-004	116	2.2001-007	3.7447-006
2ό	1.3156-004	2.3051-004	118	1.8952-006	3.6555-006
28	3.0602-004	3.2124-004	120	3.8541-006	7.9453-007
30	4.6739-004	3.9390-004	122	1.3314-005	1.2395-006
32	4.3805-004	3.6375-004	124	7.8962-006	5.6585-006
34	2.5097-004	2.5222-004	126	3.1749-006	5.5081-006
36	1.0630-004	1.7446-004	128	1.5466-005	1.1511-005
38	6.1377-005	1.4226-004	130	2.5009-005	5.9945-006
10 112	1.1025-004	1.5695-004 1.6313-004	132	8.1459-006 1.6715-005	9.1227-006
44	1.5989-004 1.8255-004	1.6313-004	134 136	1.8864-005	1.5501-006 9.2886-006
45	1.4573-004	1.3188-004	138	2.3372-005	3.8562-006
48	9.0142-005	1.0103-004	140	5.6443~005	5.1495-006
50	4.2278-005	7.6889-005	142	5.3281-005	6.6476-006
52	1.2755-005	6.0409-005	144	8.6416-005	1.0806-006
5%	1.5346-005	5.9317-005	146	1.9221-005	1.5595-005
56	2.7569-005	5.6557-005	148	6,6996-006	2.4044-005
58	4.1359-005	5.2406-005	150	1.6732-005	2.2258-005
50	4.7840-005	4.6913-005	152	1.7422-005	1.0080-005
62	3.4870-005	3.5190-005	154	3.5286-005	1.7030-006
64	1.6481-005	2.5341-005	156	1.4042-006	3.1149-005
66	4,9922-006	2.0236-005	158	4.2439-006	1.1813-005
68	2.1539-007	1.5861-005	160	1.8791-005	3.6075-006
70	5,1336-006	1.3472-005	162	1.3578-005	2.0157-505
72	1.5398-005	1.2745-005	164	6.8773-006	2.0532-005
74	1.9752-005	1.0419-005	166	1.1387-005	1.2750-006
76	1.5623-005	7.4793-006	168	3.7162-006	8.9998-006
78	7.8128-006	6.4443-006	170	1.2075-006	1.7433-005
80	2.0596-006	6.5205-006	172	2.3188-005	2.5342-007
82	2.8045-007	5.6847-006	174	1.2265-006	4.1340-005
9)t	2.7523-006	3.9178-006	176	4.3615-005	6.3179-005
<u>ලිර</u>	6.8381-006	2.2652-006	178	2.2236-005	1.1252-004
88	9.5538-006	1.3098-006	180	8.6302-005	8.6302-006
90	7.0412-006	1.2914-006			

X = 90Q = 2.066814

θ	I3	I2	θ	1,	I,
0	6.2300-001	6.2300-001	92	1.7289-006	2.9205-006
2	1.7396-002	1.7051-002	بآو	3.1983-006	1.5715-006
4	1.9630-003	1.9834-003	96	4.8061-006	6.4474-007
6	3.1891-003	2.9632-003	98	4.8143-006	1.2671-006
ě.	3.2813-004	3.4907-004	100	2.8004-006	3.2326-006
10	1.1028-003	1.1102-003	102	4.9539-007	4.5893-006
12	1.5564-003	1.4330-003	104	7.2897-007	3.7652-006
14	6.3800-004	6.7758-004	106	4.2818-006	1.4856-006
16	3.9187-004	4.8667-004	108	7,4600-006	6.1881-007
18	8.1050-004	7.8451-004	110	5.1951-006	2.9477-006
20	9.7163-004	8.5507-004	112	1.3540-006	5.7728-006
22	6.9270-004	6.3724-004	114	2.9452-006	4.5215-006
24	3.3240-004	4.0973-004	116	8.0670-006	1.1051-006
2ú	1.6931-004	3.0267-004	118	7.0338-006	1.6988-006
28	2.4767-004	3.2549-004	120	1,2976-006	5.7053-006
30	3.8548-004	3.5952-004	122	2.3671-006	5.3908-006
32	4.7722-004	3.8099-004	124	1.0296-005	9.5563-007
34	4.4565-004	3.4628-004	126	1,1199-005	1.4647-006
3 6	3.6379-004	3.0288-004	128	4.4904-006	6.0208-006
38	2.3858-004	2.3659-004	130	9.2495-007	5.6232-006
40	1.4452-004	1.9201-034	132	1.21/74-005	1.4437-006
42	7.5376-005	1.5144-004	134	3.6649-005	9.3095-006
44	3.9864-005	1.2811-004	136	2.9328-005	1.7534-005
46	3.3325-005	1.1724-004	138	6.7121-005	6.8270-006
48	3.5895-005	1.0493-004	140	9.9005-005	1.5117-005
50	5.1042-005	1.0239-004	142	6.2851-005	1.3059-005
52	6.0016-005	9.4804-005	144	8.1224-005	4.1655-006
54		8.2841-005	146	1.2546-005	2.2373-005
56	6.2771-005	7.4958-005	148	2.0143-006	3.9641-005
58	6.5575-005		150	2.4723-005	1.5983-005
60	5.6993-005 4.1262-005	6.2953-005 4.8435-005		2.6979-005	1.0777-005
62		3.8704-005	152		
64	2.9670-005		154 256	3.0798-005 1.6954-006	1.7527-005 2.9932-005
66	1.8942-005	3.0498-005 2.2138-005	156 158	1.0980-005	1.9923-005
68	7.3133-006		160		3.0013-006
	3.5261-007	1.7007-005	162	3.7526-005	4.6361-005
70	4.0850-007	1.4485-005	164	5.8676-007	7.6000-006
72 74	2.8630-006	1.1719-005	166	1.9793-005 1.9738-005	8.2629-006
	6.7564-006	8.6095-006	168		3.9575-005
76	1.1793-005	6.2559-006		1.1847-007	
78	1.5587-055	4.6685-006	170	4.0019-005	5.1958-006
80	1.4330-005	3.3952-006	172	3.2615-006	4.8701-005
82	9.6900-006	2.3604-006	174	4.2103-605	1.9638-005
84	5.4388-076	2.0023-006	176	1.1262-005	5.1111-005
86	2.5216-006	2.4904-005	178	6.8762-005	7.5659-005
88	1.3646-006	3.3587-006	180	1.7758-005	1.7788-005
90	9.9207~007	3.6301-006			

X = 95Q = 2.096168

8	I ₃	L3	θ	I,	Ţą
0	8,0184-001	8.0184-001	92	1.0407-005	1.2495-006
2	9.8551-003	9.7360-003	94	1.0644-005	1.8104-006
4	3.2205-003	3.0379-003	96	8.2938-006	
ó	7.5309-004	8.0276-004			3.0740-006
ě	7.5506-004	7.4258-004	98 300	3.6554-006	4.2144-006
10	2.0658-003		100	1.6946-006	3.9402-006
12		1.9172-003	102	4.3120-006	1.8214-006
14	1.2354-003	1.2816-003	104	7.6764-006	9.1233-008
16	2,9010-004	3.5703-004	106	5.9947-006	6.1283-007
	8.3799-004	8.0628-004	108	1.6565-006	1.7897-006
18	1.3486-003	1.2868-003	110	1.4604-006	9.6949-007
20	1.1136-003	1.0750-003	112	4.7356-006	1.5394-007
22	6.1296-004	6.2893-004	114	3.2877-006	3.0552-006
24	2.9699-004	3.8236-00 ¹	116	1.7102-008	6.6414-006
26	1.7332-004	3.0075-004	118	5.6308-006	4.4197-006
28	1.9089-00!	3.1117-004	120	1.4027-005	5.3797-007
30	2.4527-004	3.1411-004	122	8.8820-006	2.4150-006
32	3.1630-004	3.2385-004	124	5.4646-007	4,5971-006
3և	3.5056-004	3.0877-004	126	7,3796-006	1.3728-006
36	3.7693-004	3.0497-004	128	1.1396-005	8.8313-007
38	3.5281-004	2.7835-004	130	1.3784-006	2.7015-006
40	3.2371-004	2.5753-004	132	9.9394-006	9.2498-008
42	2.8076-004	2.3112-004	134	2.3465-005	7.2978-006
244	2.2523-004	1.9536-004	136	1.3286-005	1.2621-005
46	1.9019-004	1.7119-004	138	5.2241-005	3.8287-006
48	1.5286-004	1.4285-004	140	6.9181-005	1.1506-005
50	1.1458-004	1.1490-004	142	5.0558-005	1.3755-005
52	9.2237-005	9.7919-005	144	7.2786-005	8.7486-006
54	7.3517-005	8.1373-005	146	9.5252-006	2,4605-005
56	5-3554-005	6.3836-005	148	9.7676=000	Z • 4005 • 005
58	4.0935-005	5.2839-005	150	2.5465-006	5.0660-005
60	3.3284-005	4.5473-005		2.5734-005	1.2349-005
62	2.4093-005	3.6758-005	152 154	4.1451-005	6.9189-006
64	1.5137-005	2.8960-005		1.6276-005	3.1769-005
66	9.5943-006	2.4658-005	156	5.5093-006	2.0620-005
68	6.7740-006		158	3.2058-005	1.4584-005
70	4.5888-006	2.1997-005	160	2.8262-005	1.6303-005
72	2.1012-006	1.8584-005	162	5.8539-006	1.6578-005
74		1.4920-005	164	1.5170-005	1.8745-006
76	2.7186-007	1-2576-005	166	1.1181-005	2.0434-005
76	1.9137-007	1.1139-005	168	2.1144-005	1.2543-005
78	1.0857-006	9.1100-006	170	1.2778-005	3.5062-005
30	2.5934-506	6.3941-006	172	2.1831-005	2.2632-005
82	4.5525-006	3.9553-006	174	1.2211-005	3.5080-005
84	6.5753-006	2.2591-006	276	2.2448-005	5.3165-005
86	8.2529-006	1.1272-006	178	5.1963-005	8.1745-005
88	8.6180-006	1.2512-006	180	3.8616-005	3.8616-005
90	8.9093-006	1,2105-006		-	

X = 100Q = 2.101090

θ	$\mathfrak{T}_{\mathbf{i}}$	I2	θ	12	I2
0	9.8164-001	9.8164~001	92	8.9802-007	4.0552-006
2	8.2190-003	7.5955-003	94	3.6740-006	5.3964-006
4	1.0978-003	1.0549-003	<u>\$</u> 6	6.7632-006	4.6398-006
6	1.0017-003	8.2367-004	58	5.3698-006	1.9737-006
8	3.7256-003	3.6161-003	100	3.0933-006	3.0831-007
10	1.2771-003	1.1958-003	102	4.4653-006	1.3973-006
12	2.9794-604	3.6335-004	104	7.3320-006	3.3362-006
14	1.1543-003	1.3678-003	106	5.8482-006	2.5633-005
16	1.5392-003	1.4873-003	108	4.3931-006	3.9595-007
18	1.2163-003	1.1850-00	110	6.3106-006	1.2477-005
20	8.0689-004	9.2158-00-	112	5.0515-006	3.8633-006
22	5.6029-004	6.3579-004	114	3.4533-007	2.5620-005
24	4.2558-004	4.4198-004	116	2.1306-006	1.3374-007
26	2,6432-004	3.2877-004	118	3.2013-006	3.1898-006
28	1.6734-004	2.9780-004	120	2.3174-007	6.1805-006
30	1.4176-004	2.7000-004	122	1.7663-005	1.9423-006
32	1.7191-004	2.5715-004	124	4.1756-005	6.5352-007
34	1.71:03-004	2.2713-004	126	2.9247-005	6.1357-006
36	1.5519-004	2.1519-004	128	1.6049-005	4.7451-006
38	1.0414-004	1.9679-004	130	3.3068-005	1.7323-006
40 20	6.1-45-005	1.8095-004	132	2.9097-005	1.1954-005
42	4.0960-005	1.7390-004	134	8.2439-006	1.8495-005
44	2.9335-005	1.5537-004	136	2.0076-005	8.3930-006
46	2.5676-005	1.3789-004	138	6.4237-005	7,6533-006
48	3.0095-005	1.2448-004	140	7.2177-005	1.4320-005
50	3.0675-005	1.0303-004	142	8.5301-005	7.6656-006
52	2.5297-005	8.0933-005	144	1.1565-004	6.9708-006
54	2.0031-005	6.6778-005	146	2.6299-005	2.0179-005
56	1.3230-005	5,6216-005	148	1.7424-006	5.1920-005
58	1.1707-005	4.6259-005	150	3.9334-005	1.1113-005
60	1.8766-005	3.9312-005	152	5.2901-005	1.3564-006
62	2.9565-005	3.6568-005	154	1.1131-006	3.8384-005
64	3.8214-005	3.4984-005	156	2.0050-005	1.9926-005
66	3.6094-005	3.0589-005	158	7.2891-005	4.4018-007
68	2.4320-005	2.3580-005	160	9.1073-007	3.8509-005
70	1.5775-005	1.7087-005	162	1.0063-005	1.5630-005
72		1.2582-005	164	1.5946-005	2.4954-006
74	1.7149-005 2.3772-005	9.5934-006	166	2.9820-005	5.6038-005
76	2.6760-005	9.1436~006	168	4.0634-006	4.1928-007
	2.0820-005	8.9910-006	170	1.8046-005	1.9234-005
78	1.0281-005	8.0838-006	172	1.0557-005	2.0712-006
80 82		6.3158-006	174	5.8442-006	3.2400-005
84	4.9795-006	4.2780-006	176	9.4585-006	2.4777-005
86	8.1003-006	2.4230-006	.78	7.5283-005	1.1524-004
88	1.1375-005 8.5892-006	1.5669-006	160	1.9920-004	1.9920-004
90	3,2072=006	2.3017-006	100	1.7720-004	**7720-004
NO.	1460167000	F8:1071-000			

X = 105Q = 2.061438

θ	Iı	$\mathbf{I_2}$	9	I ₁	L
0	367+000	1.156/+000	92	5.2069-006	4.1377-006
2	2.5247-004	3.9216-004	بآؤ	8.0860-006	3.1899-006
4	2.2667-003	1.9928-003	96	9.1621-006	8.3961-007
ż	6.0792-003	5.9524-003	98	€.6771-006	4.7637-007
J	4.7866-004	4.5262-004	100	4.0631-006	2.5658-006
10	1,0355-003	1,1273-003	102	5.5109-006	3.0421-006
12	1.8703-003	1.7650-003	104	9.7994-006	9.3831-007
14	1.8576-003	1.6870-003	106	8.8826-006	3.4722-007
16	1.6855-003	1.6580-003	108	3.2243-006	2.4253-006
18	1.0599-003	1.1134-003	110	1.7178-006	2.2900-006
20	5.9937-004	6.6771-004	112	5.9261-006	2.5494-007
22	4.2726-004	5.0790-004	114	4.8459-006	2.7335-006
24	3.7346-004	4.7787-004	116	8.9208-007	6.4161-006
26	2.8814-004	4.2039-004	118	8.6902-006	2.8591-006
28	2.2351-004	3.6983-004	120	1.6457-005	2.5196-007
30	1.7884-004	3.2017-004	122	7.8661-006	5.2489-006
32	1.8734-004	3.0963-004	124	6.1195-006	5.3176-006
36	2.0649-004	2.9465-004	126	2.1900-005	6.1774-007
36	2.5003-004	2.9800-004	128	1.7352-005	3.8037-006
38	2.9817-004	2.9876-004	130	1.6264-006	5.0196-006
40	3.1072-CO4	2.7940-004	132	4.8377-006	3.5283-006
42	3.1019-004	2.6375-004	134	4.4125-006	8.5803-006
1,4	2.8212-004	2.3932-004	136	3.5469-005	6.1503-006
46	2.1970-004	2.0454-004	138	1.0638-004	1.2818-005
48	1.6270-004	1.7860-004	130 140	1.0507-004	2.5731-005
50	1.1743-004	1.5781-004	142	1.0358-004	1.3829-005
52	7.4651-005	1.2854-004	144	1.1205-004	7.0651-005
54	1.4001-000 1:-1200 005	9.4336-005	146	1.6314-005	1.7403-005
56	2.07535	6.6886-005	148	5.5575-006	4.6317-005
58	8.4506-006	5.0449-005	150	2.5819-005	1.0787-005
60	4.6741-006	4.2753-005	152	5.6121-005	4.6207-006
62	1.0645-005	3.8790-005	154	3.8259-007	3.4514-005
64	1.8491-005	3.4372-005	156	1.6827-005	2.8969-005
66	2.3171-005	2.8795-005	158	5.3843-005	8,1326-006
68	2.7318-005	2.3375-005	160	5.0804-007	
70	3.2104-005	1.9589-005	162	1.3141-005	2.6957-005 1.2564-005
72	3.4451-005	1,7449~005	164	1.3141~005	
74	3,1708-005	1.4703-005		1.5449-005	3.0558-005
76	2.4343-005	1.0410-005	166 163	3.1438-005	1.6544-005
78	1.5819-605			1.1827-005	2.4082-005
80	1.7019-007	6.9011-006	170	2.6142-006	2.2916-005
82	1.0598-005 9.2885-006	5.7984-006	172	1.4337-005	5.7585-007
84 84		5.9159-006	174	1.0932-005	2.0147-005
85	9.1777-006	5.1191-006	176	1.8043-005	4.5446-005
	8.2974-006	2.9310-006	178	6.4125-005	8.3774-005
88	6.5244-006 4.7886-006	1.5978-006	180	3.1615-005	3.1615-005
90	4. (000-000	2.7351-006			

X = 110

ė	I_1	I.	θ	I ₁	Ia
0	1.4347+000	1,4347+000	92	9,8781-006	1.8093-006
2	3.8077-003	3.6840-003	94	8.4595-006	8.3980-007
4	8.9787-003	9.1018-003	96	4.0838-006	1.2546-007
6	9.1306-005	8.2114-005	98	3.3172-006	1.9498-006
8	2.8255-003	2.8753-003	100	6.0218-006	2.0051-006
10	2.4138-003	2.1727-003	102	5.7547-006	1.1607-007
12	2.5238-003	2.4567-003	104	2.1371-006	2.0562-006
14	1.5768-003	3.5526-003	106	3.0078-006	4.2443-006
16	7.2772-004	7.8193-004	108	1.0068-005	1.4977-006
18	5.3716-004	7.1280-004	110	1.0321-005	8.2480-007
20	4.9262-004	5.9810-004	112	3 2313-006	4.6084-006
22	3.7119-004	4.6396-004	114	3.2313-006 ⇒.2124-006	3.2822-006
24	3.4081-004	4.4840-004	116	9.3598-006	6.0787-007
26	3.5131-004	4.7515-004	118	2.5782-006	4.9051-006
28	3.8352-004	5.0396-004	120	4.4323-006	4.9358-006
30	4.1557-004	5.0846-004	122	2.6014-005	9.7587-008
32	4.9652-004	5.2302-004	124	2.3774-305	4.8533-006
34	5.5409-004	4.8797-004	126	1.4592-006	7.3477-006
36	5.7223-004	4.3591-004	128	1.4792-000	1.34/(=0.00
38	5.0559-004	3.7551-004	130	1.0999-005	1.2575-006
40	3.3399-004	3.0022-004		2.1761-005	6.1384-006
42	1.7171-004	2.4260-004	132	1.4058-005	1.4547-005
44	7.8735-005	2.4280-004	134	3.3800-005	9.2199-006
46	6.0128-005	1.6809-004	136	6.9456-005	8.0380-006
48	8.4052-005		138	8.4905.005	1.3672-005
50	1.1154-004	1.4909-004	140	7.0742-005	1.5625-005
	1.2665-004	1.4526-004	142	8.6661-605	1.8891-005
52 54	1.1622-004	1.4242-004	144	9.4470-005	1.7410-005
24	7.8349-005	1.2791-004	146	1.4324-005	2.0914-005
56		1.0135-004	148	1.3897-005	3.8157-005
58 60	3.4989-005	7.0167-005	150	2.8400-005	9.6264-006
	7.9790-006	4.4599-005	152	4.7257-005	2.1286-005
62 64	2.1546-006	3.3116-005	154	3.8721-006	2.8085-005
	1.3520-005	3.3857-005	156	+-4555-005	2.1368-005
66	3.2737-005	3.4761-005	158	2.4376-005	2.8071-005
63	4.6433-005	2.8605-005	160	1.6386-005	2.7407-005
70	4.5228-005	2.0958-005	162	5.1942-005	1.1145-006
72	3.0538-005	1.7483-005	164	1.1413-006	5.9765-005
74	1.3309-005	1.5606-005	166	2.2026-005	1.4802-006
76	4.2873-006	1.2565-005	168	1.7574-006	2.2907-005
78	2.1943-006	1.0076-005	170	3-1350-005	1.4104-005
୫ ୦	1.6665-006	9.3774-006	172	9.0599-006	6.5391-005
82	4.7755-006	7.0324-006	174	3.4659~005	3.8092-006
81:	7.5157-006	6.4535-006	176	1.6019-005	4.4460-005
86	7.5678-096	4.9038-006	178	5.0343-005	1.0180-004
88	6.7606-006	1.7493-006	180	4.3376-005	4.3376-005
90	7.8408-006	8.3966-007		•	

X = 115Q = 2.039604

6	I,	I.a	θ	I2	I3
0	1.6269+000	1.6269+000	92	6.3149-006	5.8856-306
2	7.8265-003	8.0370-003	بآؤ	6.0703-005	2.2456-006
lş.	2.9206-003	2.8089-003	96	9.6933-005	1.0777-007
6	7.0553-003	6.9779-003	98	1.5742-005	1.3276-006
B	2.5520-003	2.4537-003	100	1.2040-005	
10	2.4345-003	2.4053-003	102	5.6544-006	9.1997-007 1.2860-906
12	6.4265-004	7,1526-004	104	8.9724-005	1,7795-006
14	5.7467-004	7.10,6-004	106	1.1607-005	1,2001-607
16	5.3588-004	6.7700-004	108	4.6606-006	2.4914-006
18	4.2514-004	5-3696-004	110	1.8543-007	5.3911-006
20	4.6478-004	5.9338-004	112	5.1793-006	1.1612-006
22	4.2058-004	5.6961-004	114	4.4885-006	1,7766-006
24	3.4931-004	4.8908-004	115	9.0481-007	8.0725-005
26	4.0087-004	5.1935-004	118	1.3218-005	3.5742-006
28	5.6816-004	6.3432-003	120	1.8418-005	9.5617-007
30	7.3024-004	7.1437-004	122	4.6659-006	
32	8.0263.004	7.0102-004	124	1,0983-005	9.0511-006
34	6.5301-004	5,4492-004	126	2.1256-005	4.5499-006 8.2121-007
36	3.8758-004	3.7073-004	128	8.6488-006	9.7406-006
38	1 6323-004	2.6670-004	130	1.0579-005	5.7618-006
40	1.1804-004	2.11245-004	132	1.0026-005	8.1818-008
42	2.2385-004	2.5932-004	134	1.6011-005	2,7025-007
կե	3.0645-004	2,6826-004	136	8.2417-005	1.0852-005
46	2.6644-004	2.5139-004	138	1.2747-004	3.3991-005
48	1.3939-004	2.0768-004	140	1.1125-004	2.3123-005
50	4.2611-005	1.4687-104	14.	1.1914-004	1.0958-005
5?	3-1451-005	1.0344-004	144	9.0172-005	2.2145-005
54	7.1867-005	1.0038-004	146	7.3428-006	3.0459-005
56	1.0131-004	1.1204-004	148	3.3274-005	4.2016-005
58	8.2602-005	9.6631:-005	150	3.9725-005	1.0015-005
60	3.4179-005	6.2032-005	152	3.0784-005	4.6431-005
62	3.7291-006	4.2078-005	154	4.9752-006	3.0849-005
64	1.3647-005	4.1357-005	156	7.5053-005	2.8702-006
56	4.3115-005	3.9084-005	158	3.3587-006	3.7690-005
68	5.2651-005	2.8605-005	160	1.3079-005	4.1727-005
70	3-2504-005	2.177/:-005	162	5.1684-005	1.3974-005
72	9.1237-006	1.9852-005	164	1.2271-005	1.9042-005
74	3-1219-007	1.4196-005	166	2.2571-005	9-2564-006
76	2,7538-006	9-2972-006	168	8.5030-007	4.1551-005
78	1.1957-005	9-7955-006	170	3.4514-005	1.9063-005
80	1.9539-005	7.1823-006	172	3.5561-005	4.7440~005
82	1.6735-005	2.6677-006	174	1.6059-005	2.9662-005
84	9-2672-006	4.6454-006	176	1.5341-005	9.2295-007
86	4.8146-006	6.0525-006	178	2.2193-005	1.0897-004
88	3.2059-006	2.6975-006	180	8.8011-006	8.8011-006
90	4-4579-006	3.6914-006		-10022.000	A*CONT-COO

X = 12CQ = 2.142070

8	I ₁	\mathbf{I}_{2}	8	î,	Ι ₂
Ð	2,1151+000	2.1151+600	92	1 2256 006	
2	1.0091-002	6.3442-003	92	1.3256-006	5-1376-006
l _k	1.6954-002	1.8143-002	96 96	8.1905-007	1.6255-006
૯	1,1729-003	9.6973-004	98 98	1.2172-005 1.5381-005	4.1003-006
8	1,0648-003	1.0869-003	100	1,4032-006	4.6137-006
10	6.9850-004	5.0178-004	102	6.0632-006	5-2528-007
12	1.1387-003	1.3903-003	104	5-3545-006	4.1180-007
14	1.2811-003	1,0642-503	106	2.9100-006	9.3702-007
16	1.4512-003	1.3322-003	103	1.3588-006	3-7239-006
18	1.0850-003	1.1025-003	110	2.7411-005	2.5971-006
20	9.4073-004	7.2719-001	112	2.4114-965	2.5153-007
22	6.0648-004	6.1003-004	114	3.1409-006	6.1093-006
24	3.0644-004	5.5833004	116	2.8873-005	4.6632-006
26	4.0943-004	6.5695-004	118	4.6336-005	2.1591-007
28	8.6707-004	8.1090-004	120	2 7/2/2 005	6.7231-006
30	1.1245-003	8.4836-004	122	2.74311-005 5.8559-005	5.4830-006
35	7.8901-004	6.8377-004	124	6.1910-006	3.9375-007
34	2.6486-004	4.0777-064	126	4-1215-00	6.3086-006
36	8,0237-005	2.9190-004	128	3.6949-005	4.0129-006
38	3.6871-004	3.5387-004	130	2.8728-006	8.1223-007
40	6.1209-004	4.0023-004	132	5.5136-005	3.0238-006
42	3.6536-004	3.325/1-004	134	6.0957-005	1.0647-006
44	1.4397-004	2.4103.004	136	7.7750-005	1.3561-005
46	1.1626-004	1.9602-004	138	6,8328-005	1.7825-005
8:1 .	1.4086-604	1.3809-004	140	5.1628-005	2.1959-005
50	1.7276-004	2.0941-004	142	1.1601-004	3.1928-005
52	9.0545-005	1.6478-004	144	1.7768-004	1.3308-005
54	2.2911-006	9.6254-005	146	2.4773-005	1.9613-005
56	5.0377-005	8.9486-005	148	7.2193-005	3-2319-005
58	9.7234-005	1.0266-004	150	1.2989-004	3-5272-005
60	5.2149-005	7.2048-005	152	2.2693-005	6.5950-006
62	1.8273-005	4.2696-005	174		5.7955-005
64	7.9300-006	4.2270-005	156	3.5053-005 1.4153-004	3.9062-005
66	4.8303.005	3.7745-005	158	4.5729-006	4.7075-006
68	9•9772-105	2.9955-005	160	1.3676-004	3.0239-005
70	3.3445-305	2.6016-005	162	9.0480-006	1.7299-005
72	2.9197~006	1.7082-005	164	6.0887-005	5.6612-005
74	2.3303-005	1.4683-005	166	4.0556-005	1.4846-005
76	2.5271-005	1.3472-005	168	6.2549-005	2.2390-005
78	3.8821-005	7.1757-006	179	1,3616-005	2.5004-005
80	1.1798-005	9.2852-006	172	1.0928-005	4-5371-005
82	7.1366-006	8.4811-005	174	7.6067-005	6.1891-006
84	1.4695-005	3.8976-006	176	2.1164-005	5.0690-005
86	1.4385-005	4.5129-006	178	9.8339-005	3.3101-006
88	2.4690-005	1.1407-006	180	5.9297-004	7.7102-005
90	7.5842.004	2 2007 006	200	7076717004	5.9297-004

X = 125Q = 2.023818

θ	I,	I _N	θ	I ₂	Ią
0	2.2333+000	2.2333+000	92	1.7631-005	1.9423-006
2	3.4936-002	3-4533-002	94	9.7991-006	6.0840-007
lş.	2.0556-003	1.9596-003	96	6.1242-006	5-7521-006
6	1.5247-003	1.5779-003	98	7.7637-006	1.5576-006
8	3.2170-003	3.2372-003	100	1.0926-005	2.4000-006
10	3-4532-003	3.3600-003	102	8.5993-006	3.2913-006
12	2.9737-003	2.7483-003	104	8.5190-006	1.5517-006
14	3-1125-003	2.9457-003	106	1.1932-005	5.7015-007
16	2.1486-003	1.9719-003	108	4.8750-006	2.2058-006
18	1.9259-003	1.8547-003	110	4.7272-008	7.1160-006
20	1.26%-003	1.2934-003	12	3.8085-006	1.1061-006
22	6.2226-004	7.1697-004	1:4	5.1864-006	3.3772-006
24	3.960?-004	5.3813-004	116	2.0378-006	8.8527-006
26	6.8837-004	7.8279-004	118	1.6238-005	1.2171-006
28	1.0732-003	1.0420-003	120	1.7800-005	4.5244-006
30	9.4018-004	8.9350-004	122	9.4016-007	9.5621-006
35	4-2390-004	5-1357-004	3.24	3.4497-005	2.6038-007
34	1.7317-004	3.5896-004	126	2.9042-005	7.5603-006
3ó	4.9087-004	-7411-004	128	1.9629-006	4.5824-006
38	6.6097-004	-9993-004	130	4,7823-005	2.8093-006
40	2.8177-004	3.4515-004	132	2.8326-005	1.3131-005
42	1.3320-004	2.7277-004	134	2.1111-005	6.8024-006
44 46	3.3577-004	2.9357-004	136	8.2549-005	3.3083-005
	2.6819-004	2.9070-004	138	9.6576-005	3.5695-005
48	7.3015-005	2.0505-004	140	1.0234-004	1.7057-005
50	7.6882-005	1.5154-004	142	1.4580-004	2.1707-005
52	1.6201-004	1.8376-004	11,4	1.1635-004	2.2873-005
54	1.0875-004	1.5155-001	146	8.1915~006	2.8850-005
56	1.3669-005	8.4494-005	148	7.0838-005	2.4170-005
58 60	7-4599-005	9.6291-005	150	9.6850-005	2.5794-006
62	1.0915-004	9.0344-005	152	2.3659-006	5.4430-005
64	2.4095-005	5.4235-005	154	2.9463-005	4.5660-005
66	1.3728-005	4.6519-005	156	4.9529-005	2.151:0-005
68 68	6.5099-005	4-3311-005	158	1.2620-007	4.0676-005
70	5.0062-005	3.6142-005	160	8.2671-005	1.9343-007
72	2.7723-006	2.5166-005	162	2.9079-007	3.4529-005
74	1.5469-005	2.1385-005	164	3-6175-005	7.2853-006
76	3.5069-005	1.7766-005	166	9•9743-006	7.1088-005
78	2.1050-005	1.3280-005	168	3-1818-005	8.9114-006
80	3.6212-006	1.3307-005	170	7.0762-006	3.7159-005
82	6.6534-006	7.7362-006	172	6.3312-006	4.7115-006
84 84	1,9017-005	6.4355-006	174	2.4527-005	3.9010-005
86	1,1907-005	2.9957-006	176	1.9024-005	3.5755-005
88	2.8222- 76 3.2314-006	6.9728-006	178	4.4823-005	3.7864-005
90		5.8401-006	180	4-9372-005	4.9372-005
3 0	1.2997-005	1.7770-006			.,5,,

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Appendix C

GRAPHS OF ANGULAR SCATTERING FUNCTIONS

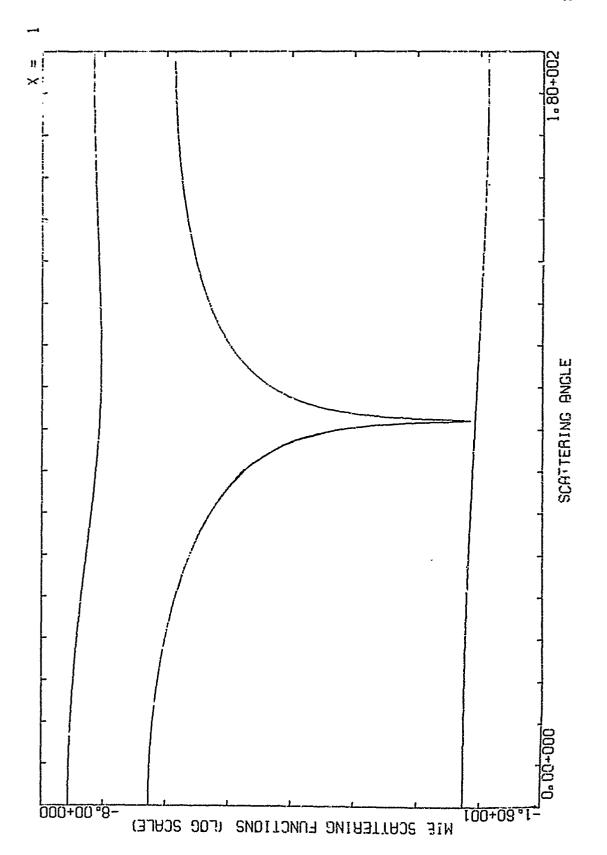
The following pages comprise graphs of the scattering functions

 $I_1(\theta) \times 10^{-N}$, (lowest curve)

 $I_2(\theta) \times 10^{-1}$, (middle curve)

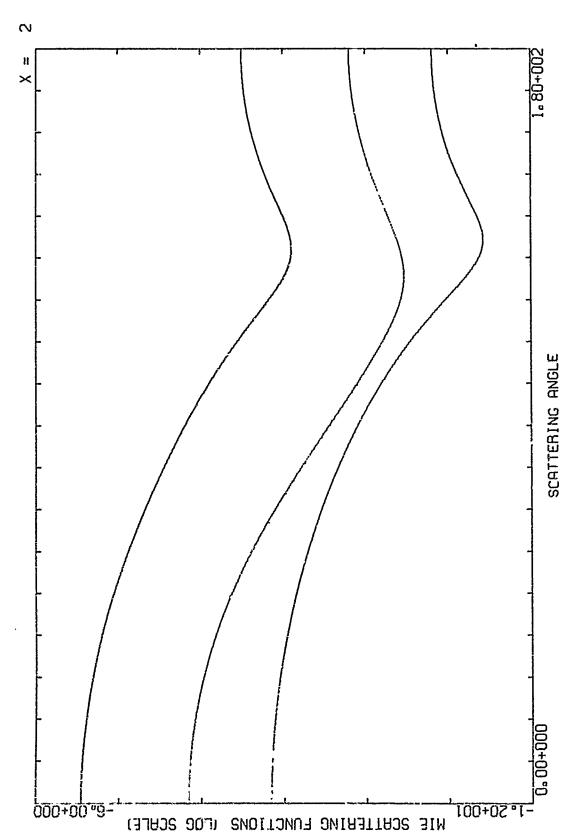
 $I_1(\theta) + I_2(\theta)$, (top curve)

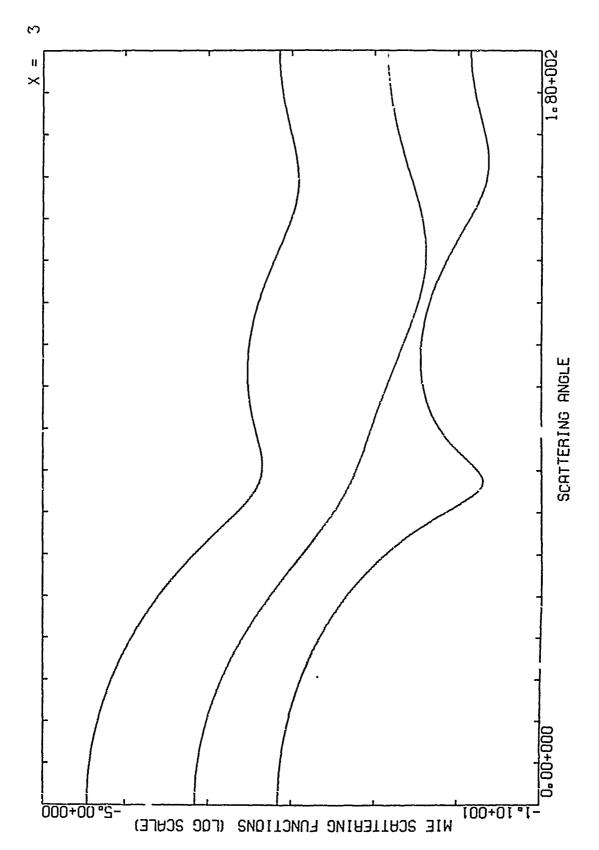
In the text, p. 8 gives the method of determining the 10^{-11} factor.

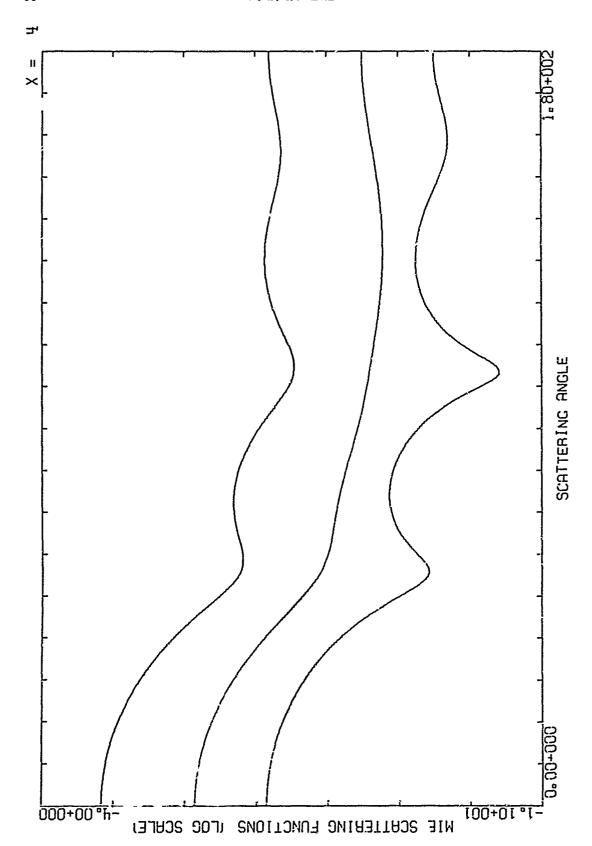


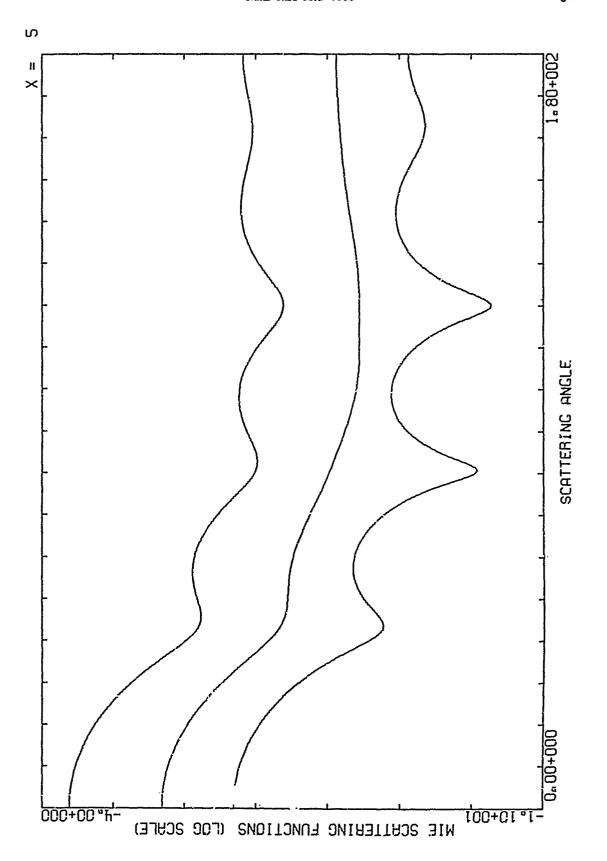


H. B. HOWELL



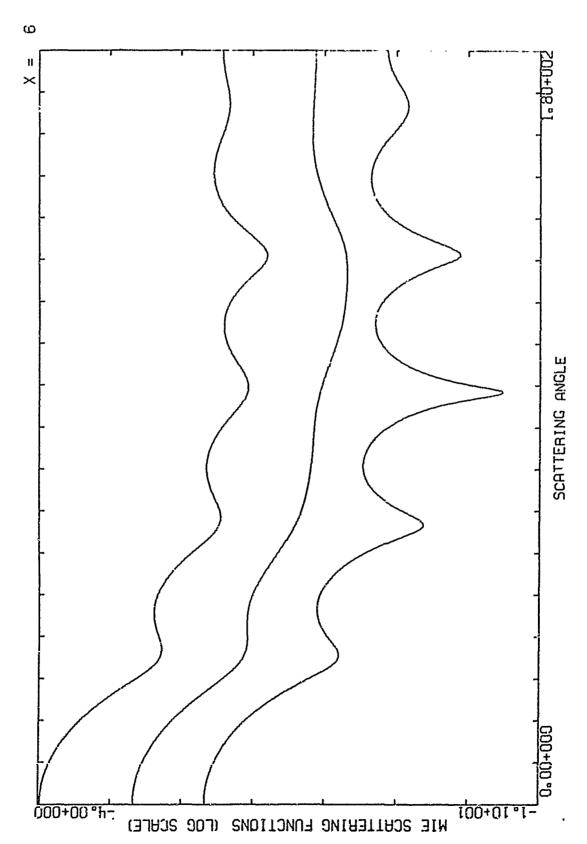


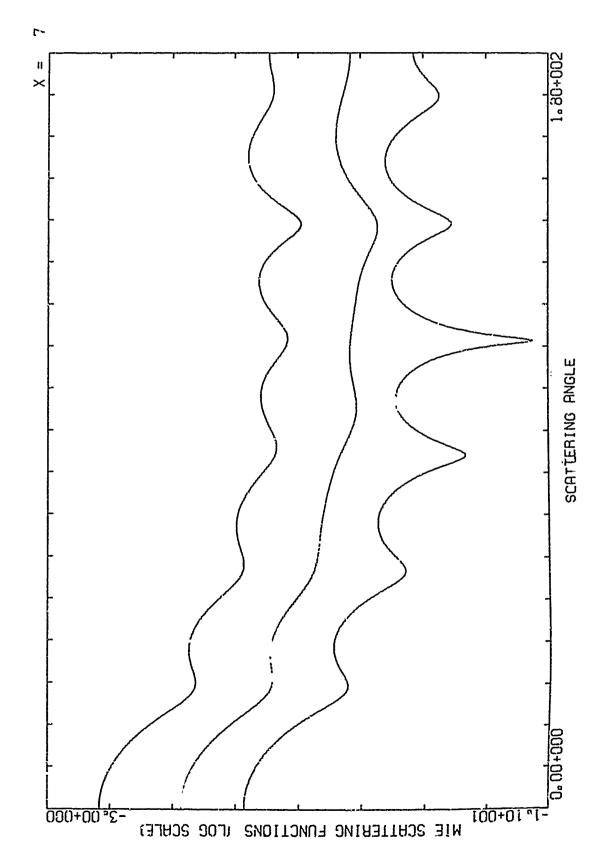






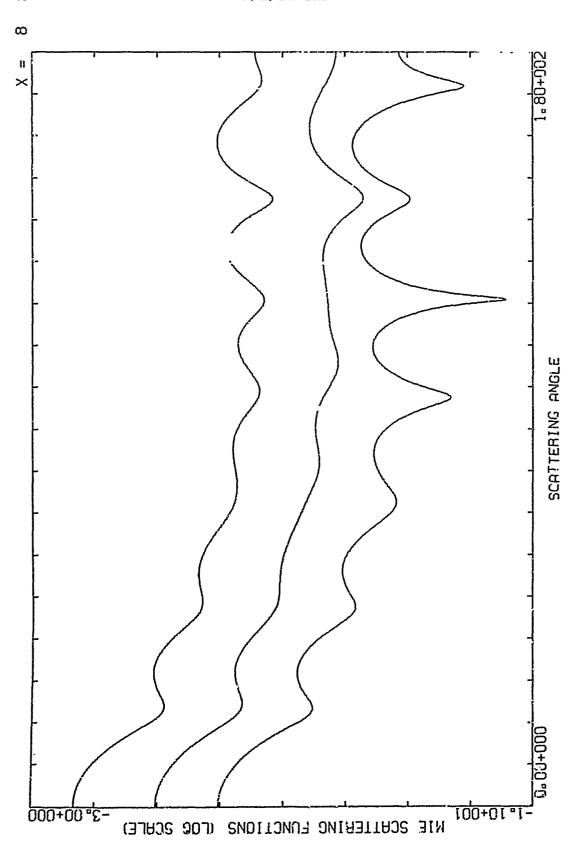
H. B. HOWELL

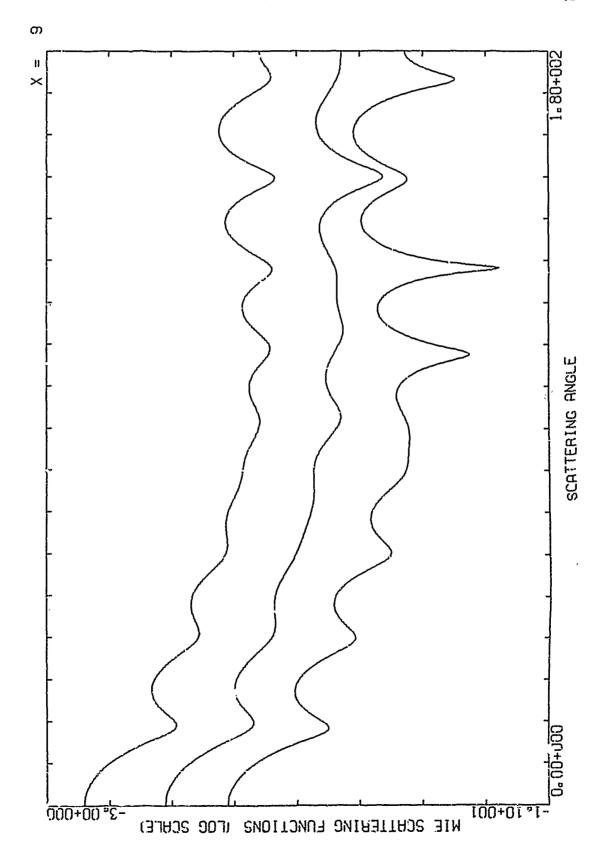


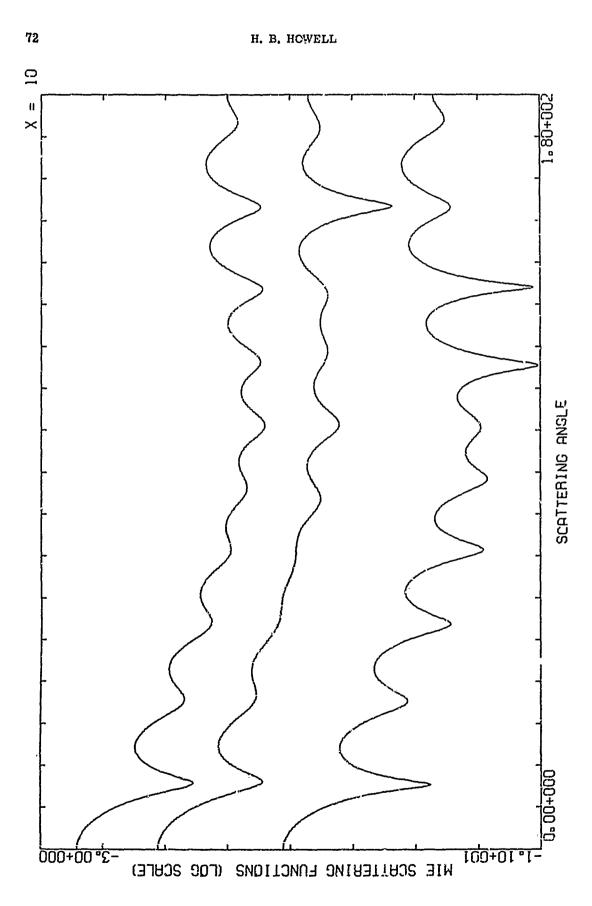


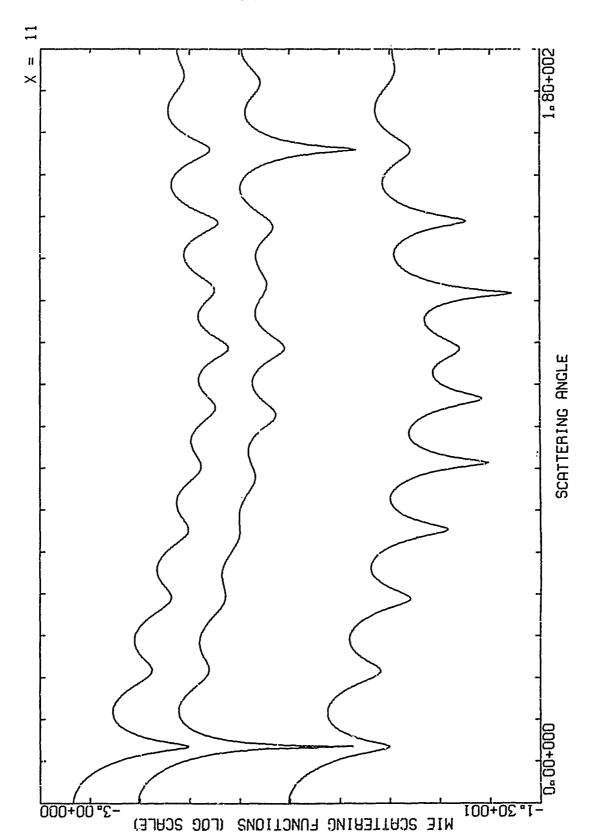


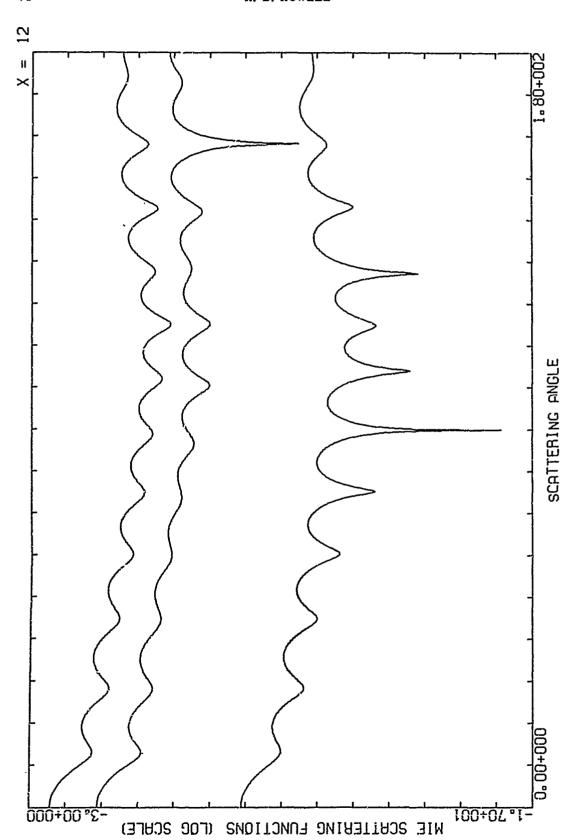


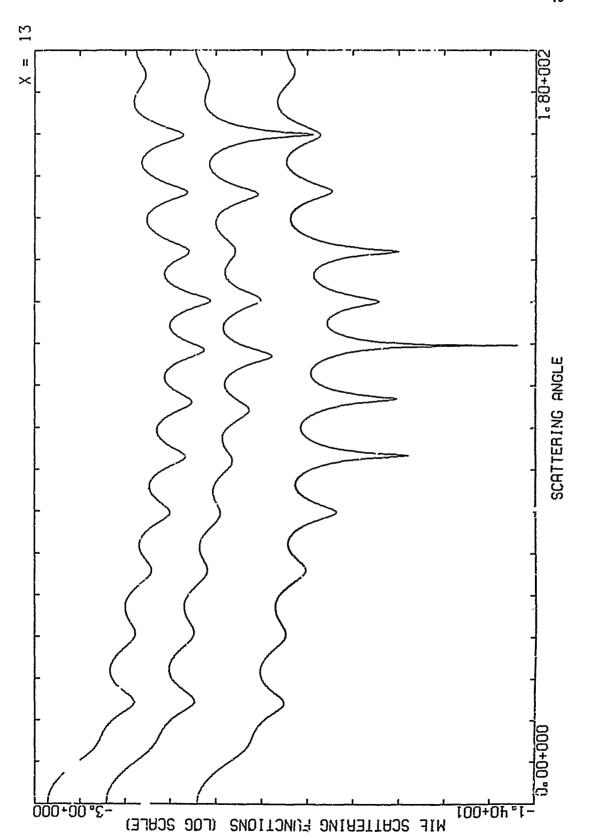






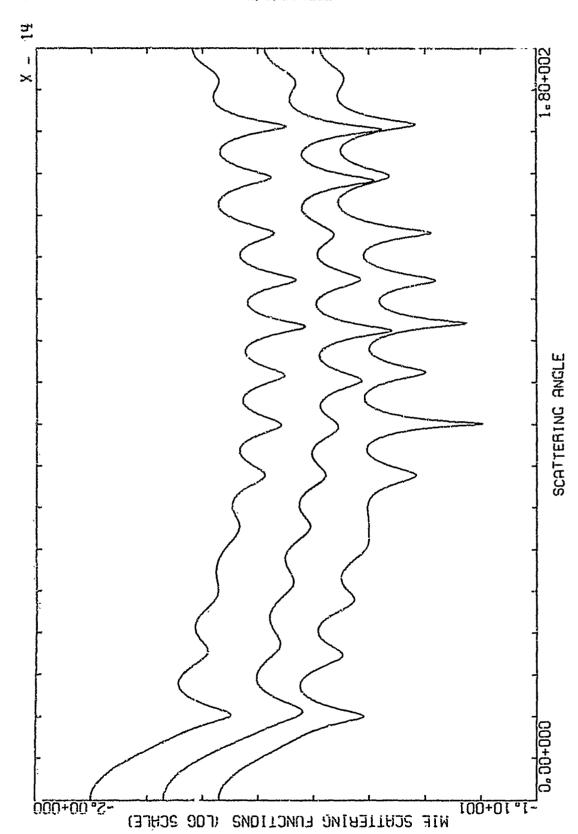


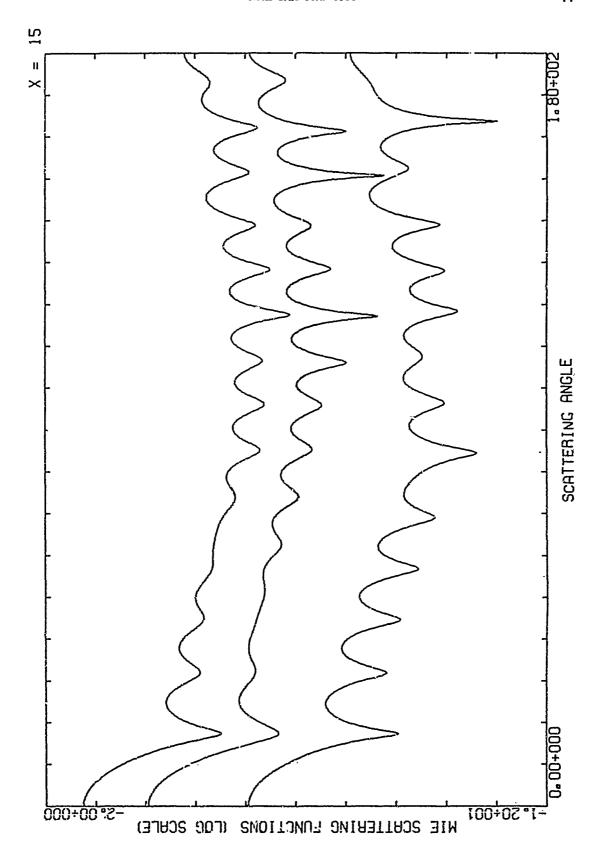


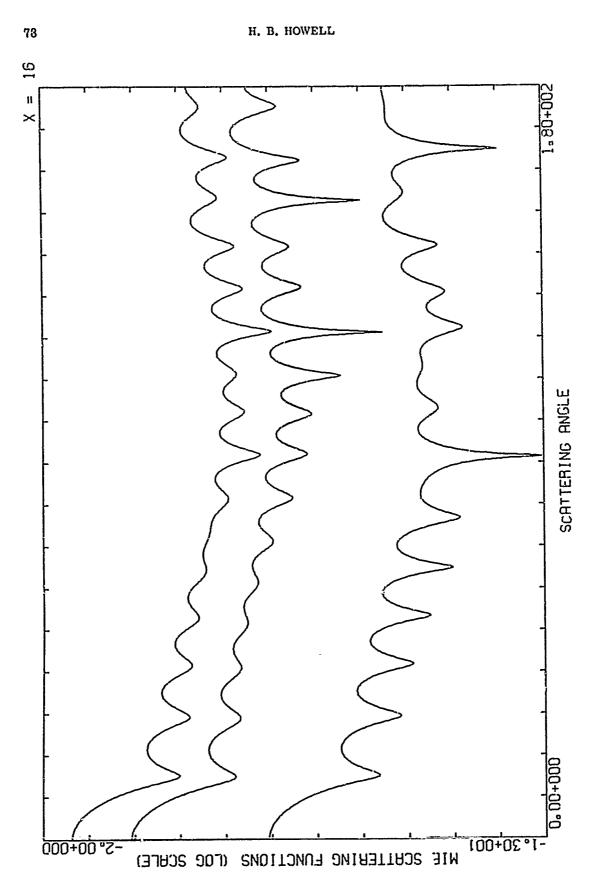


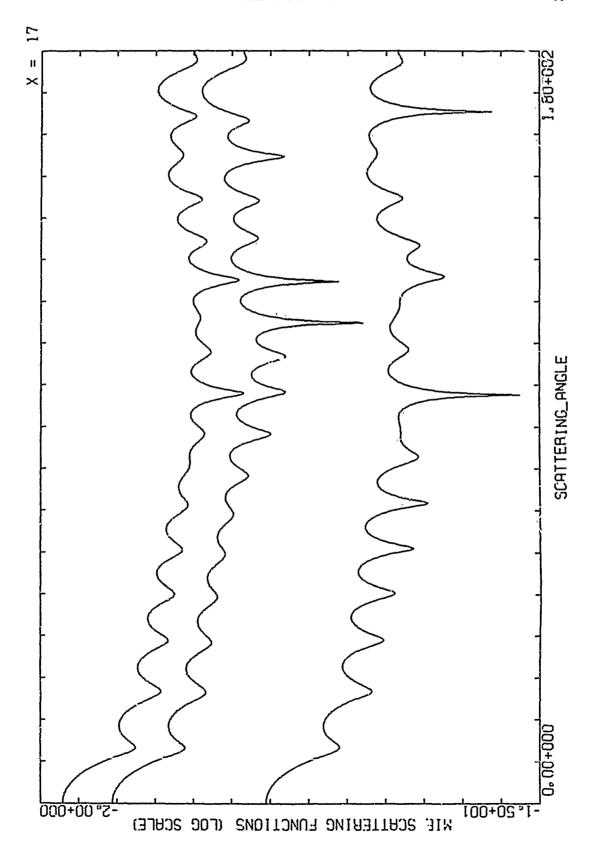


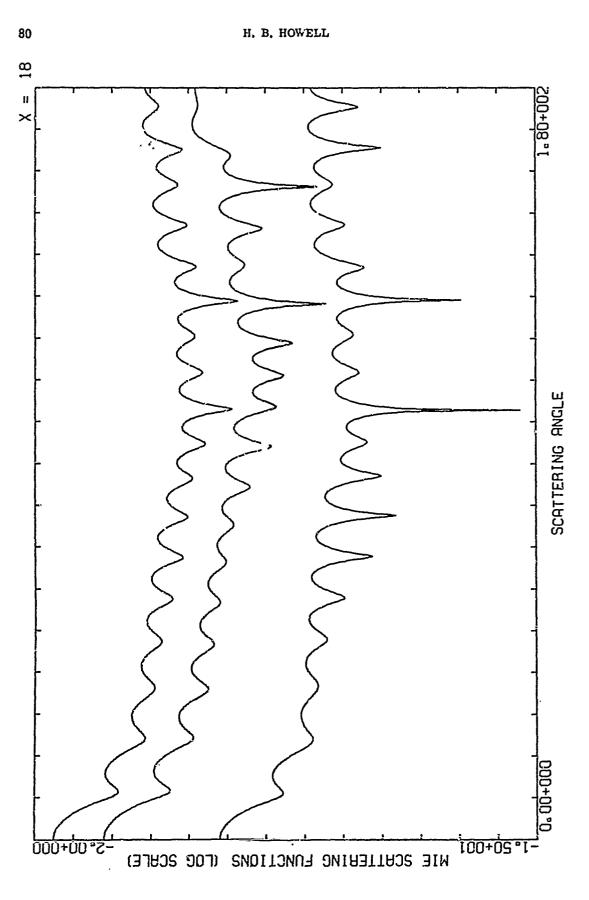


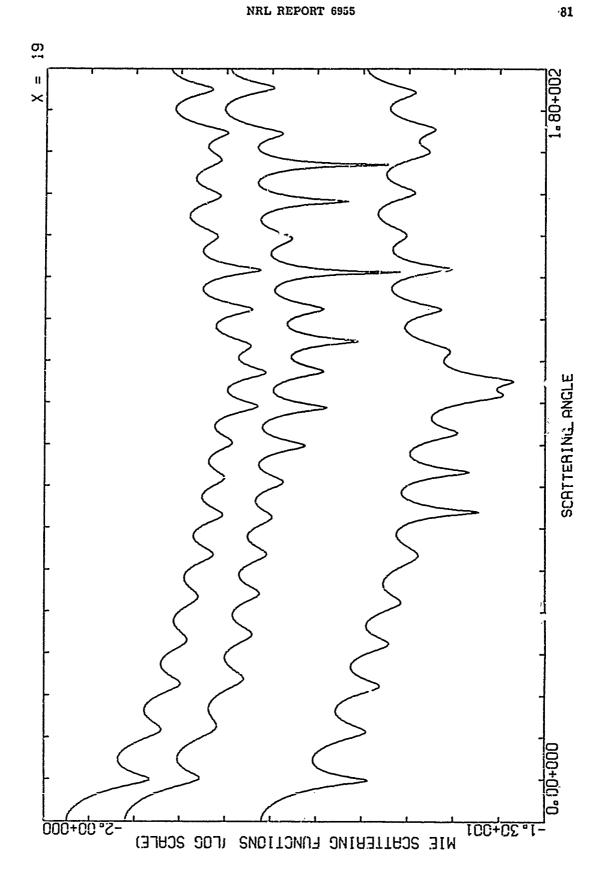


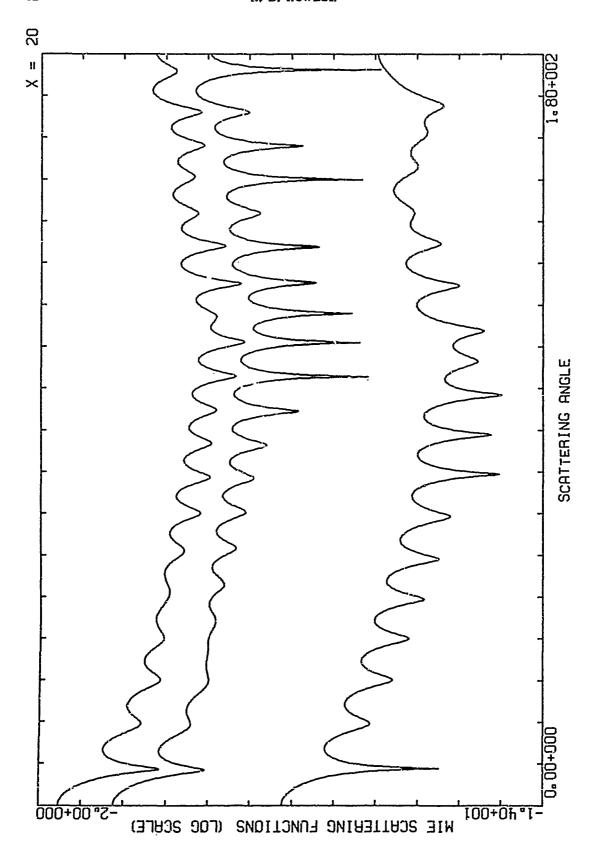






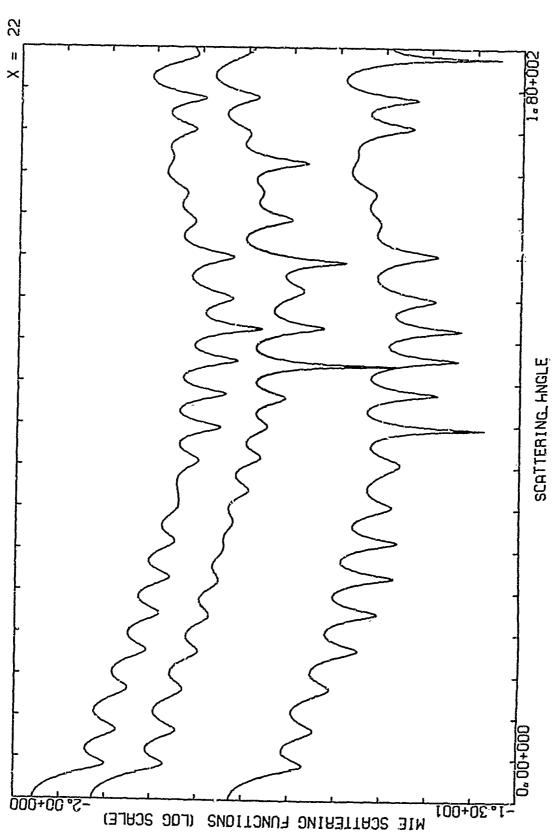


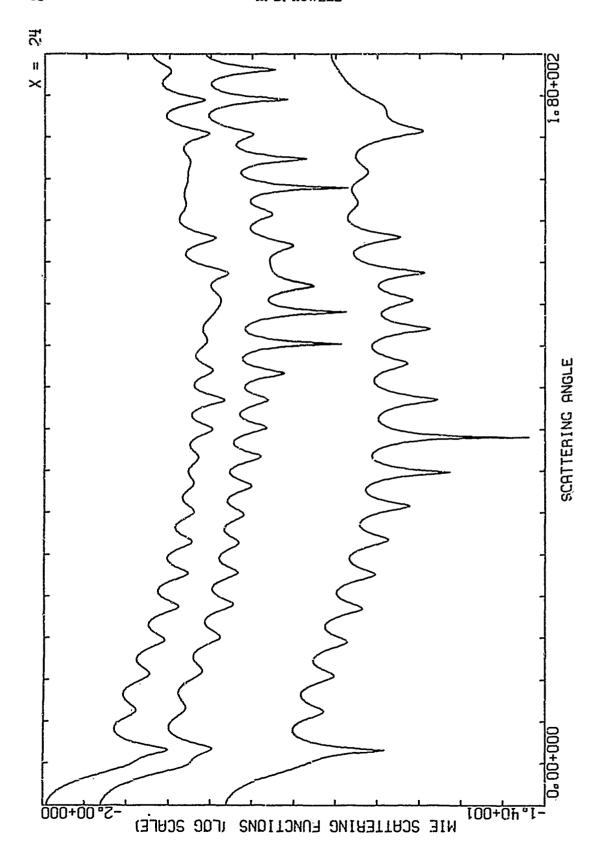


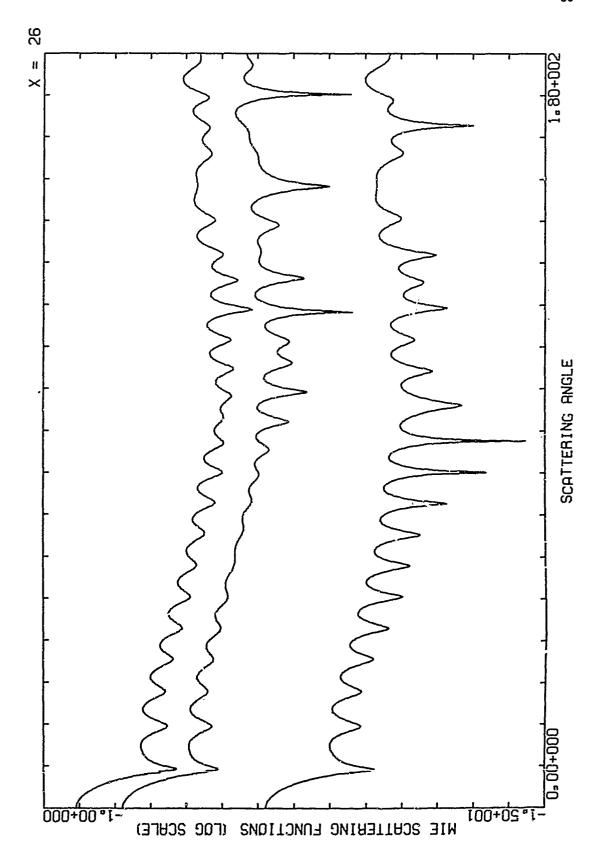


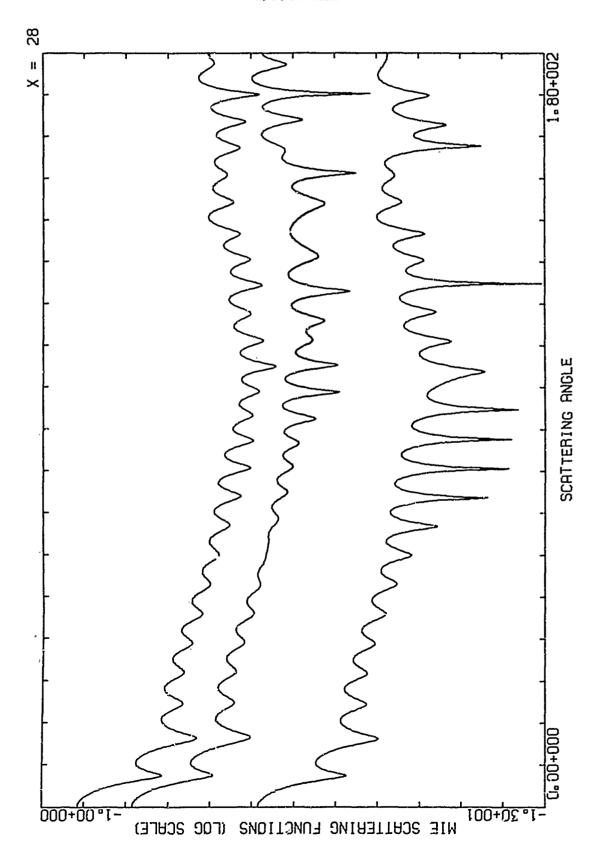


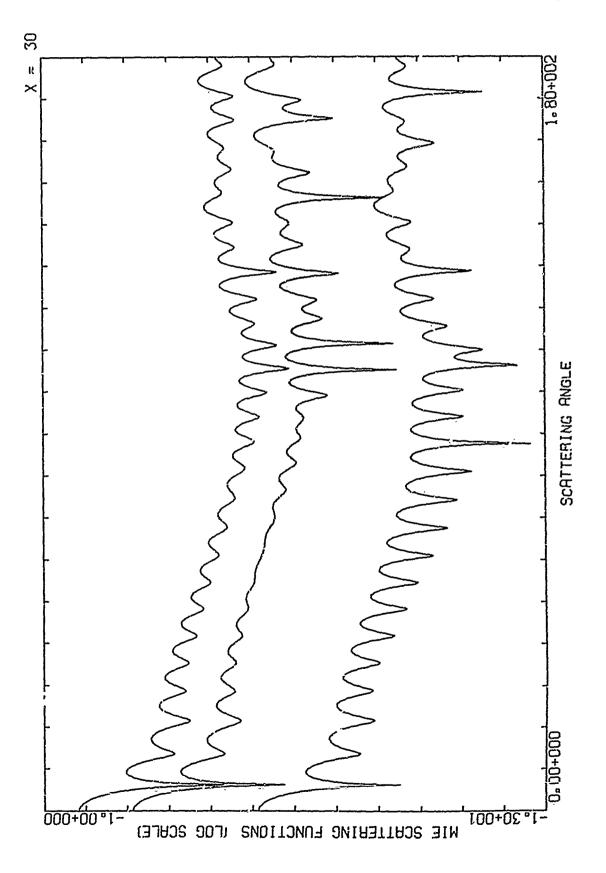






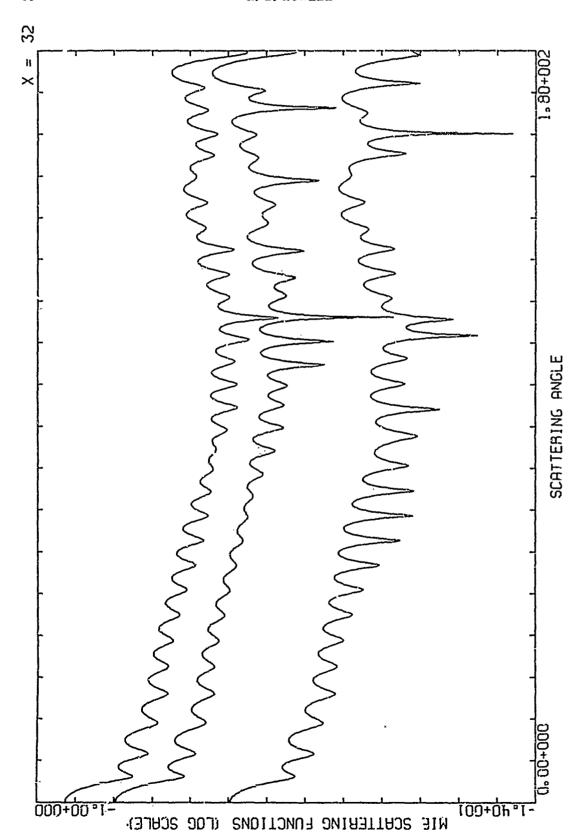


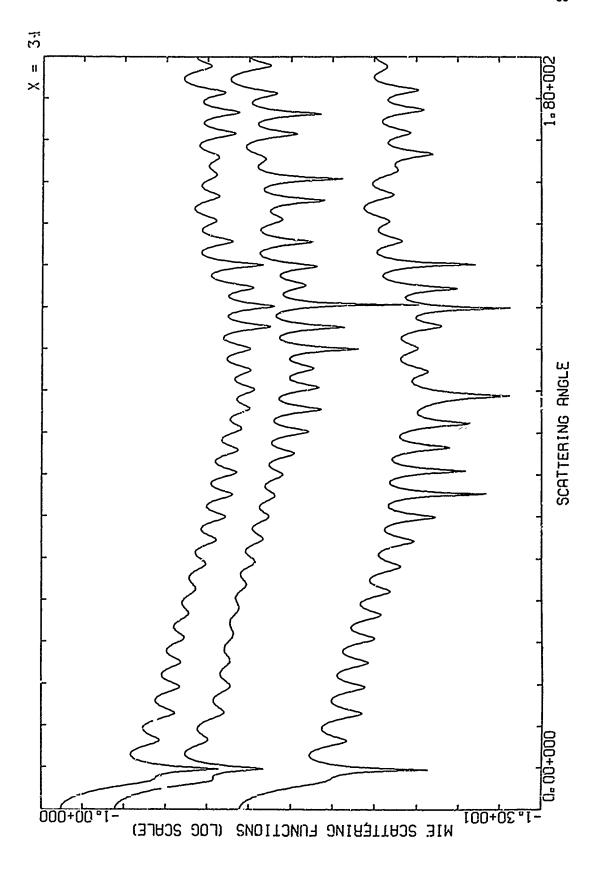


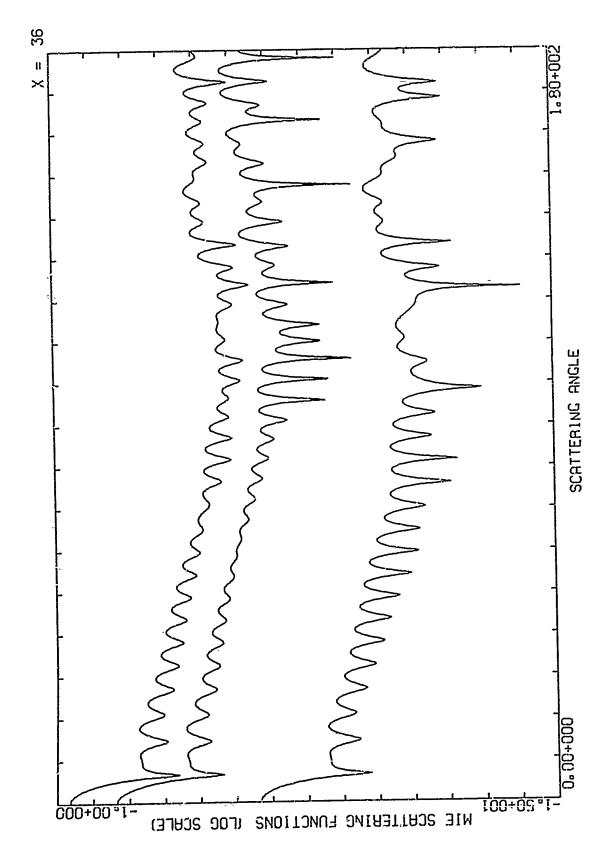


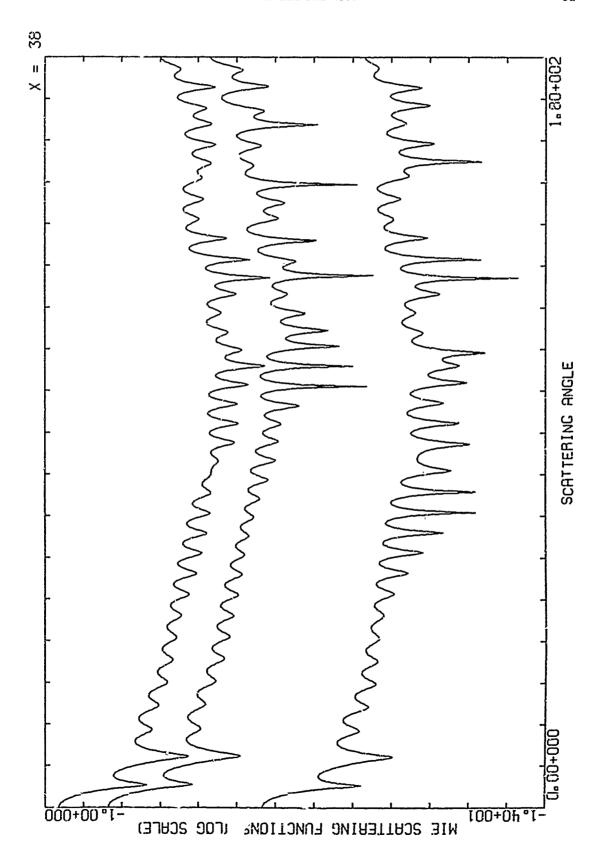






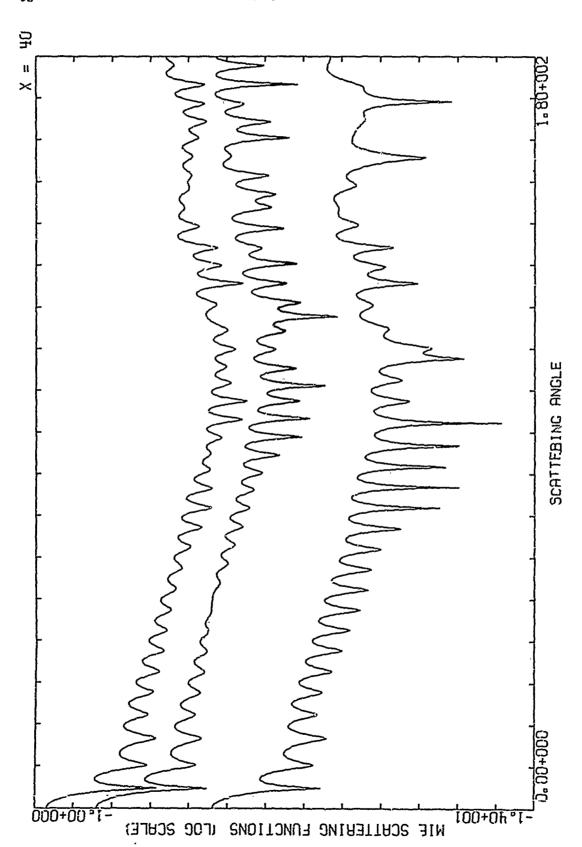


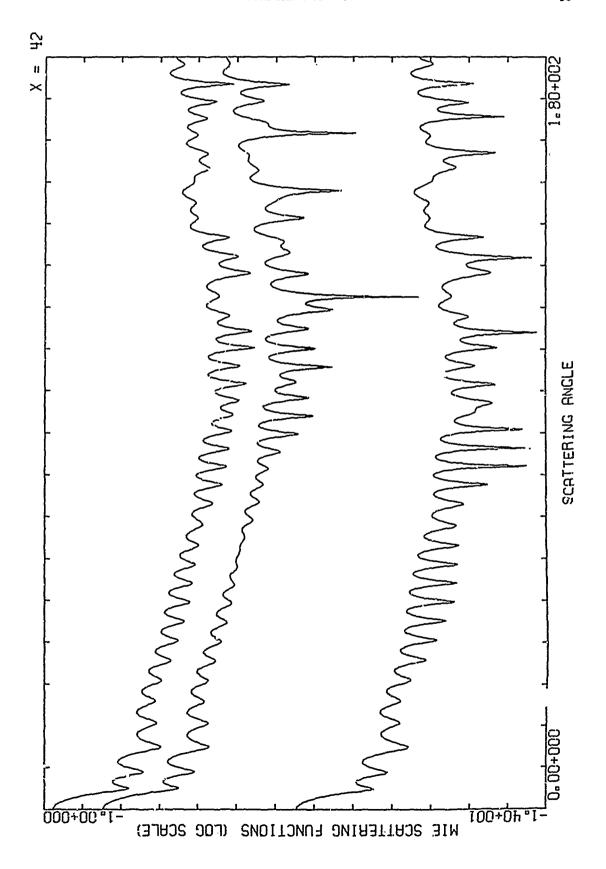


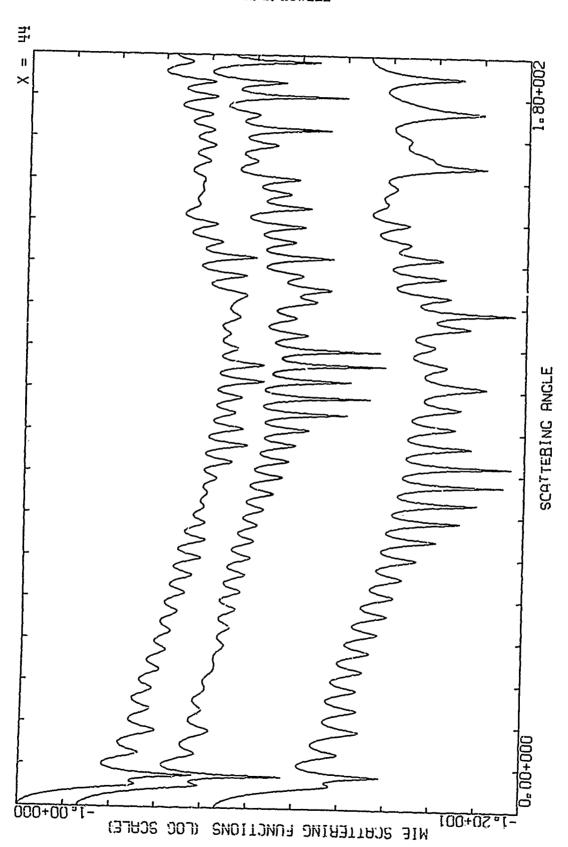


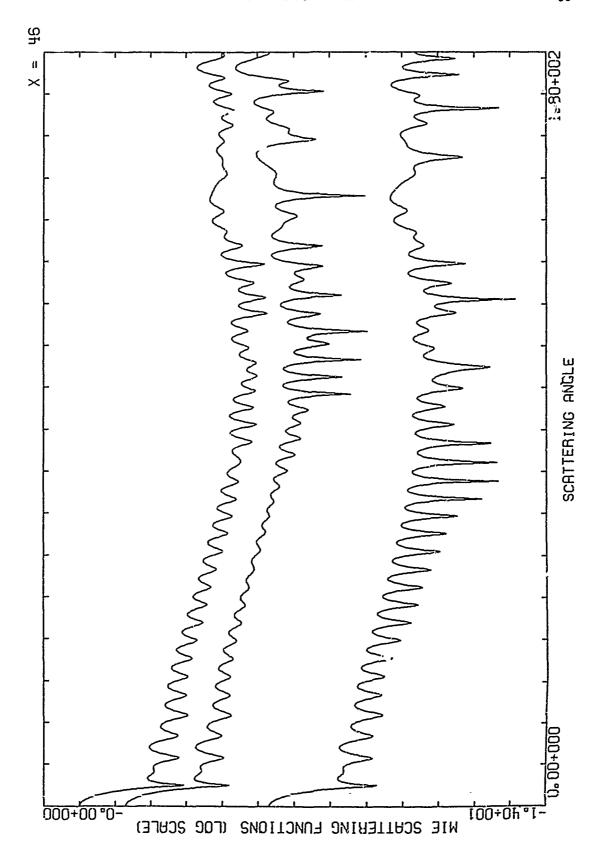


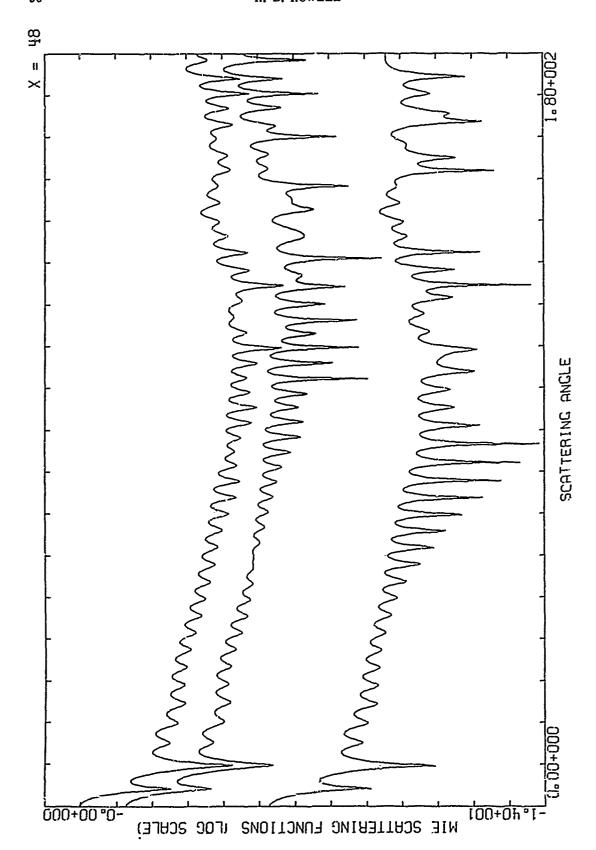


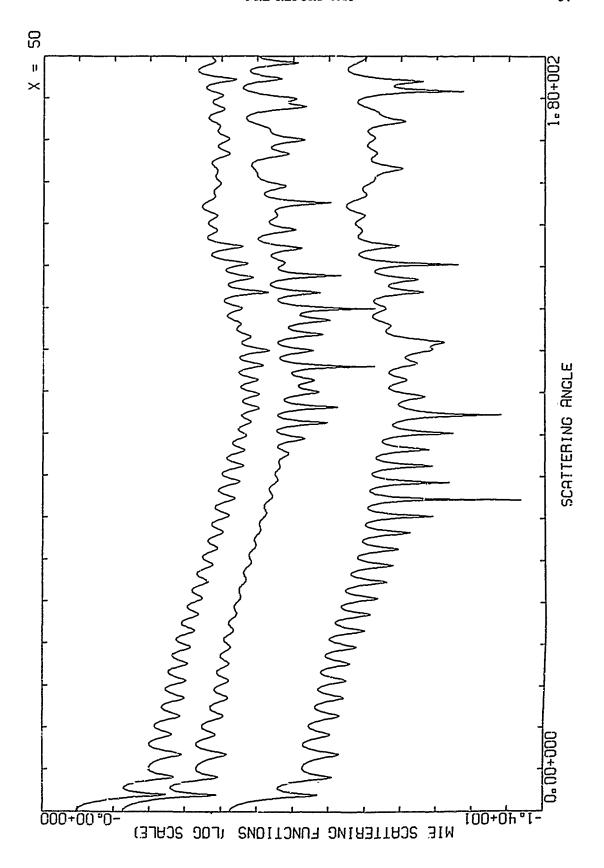


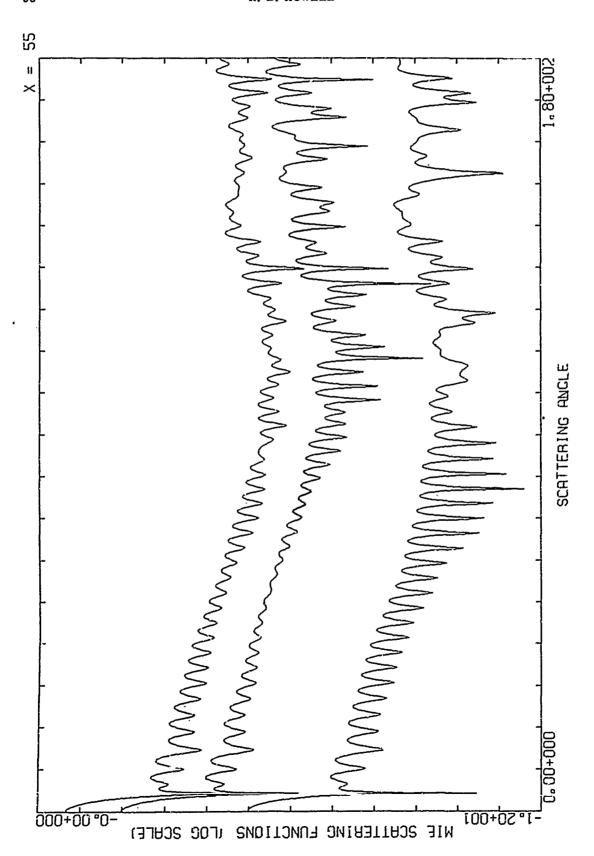


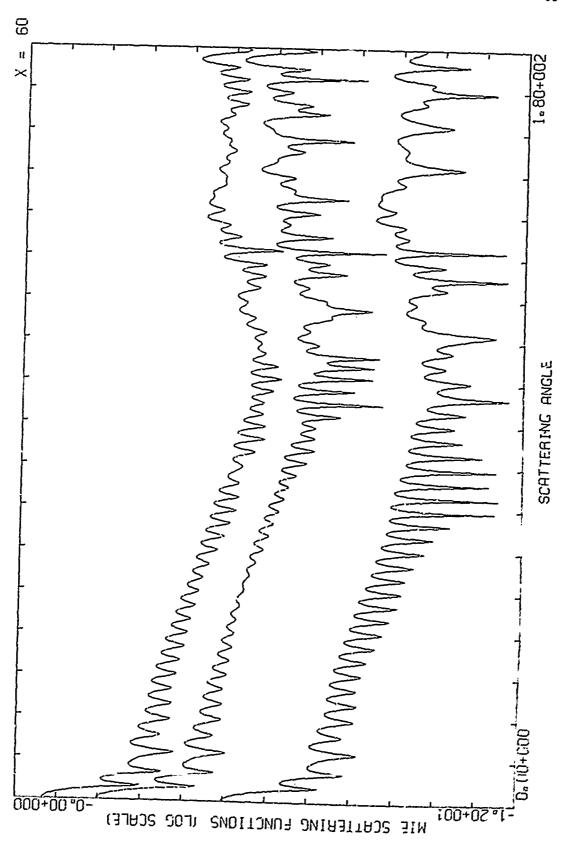


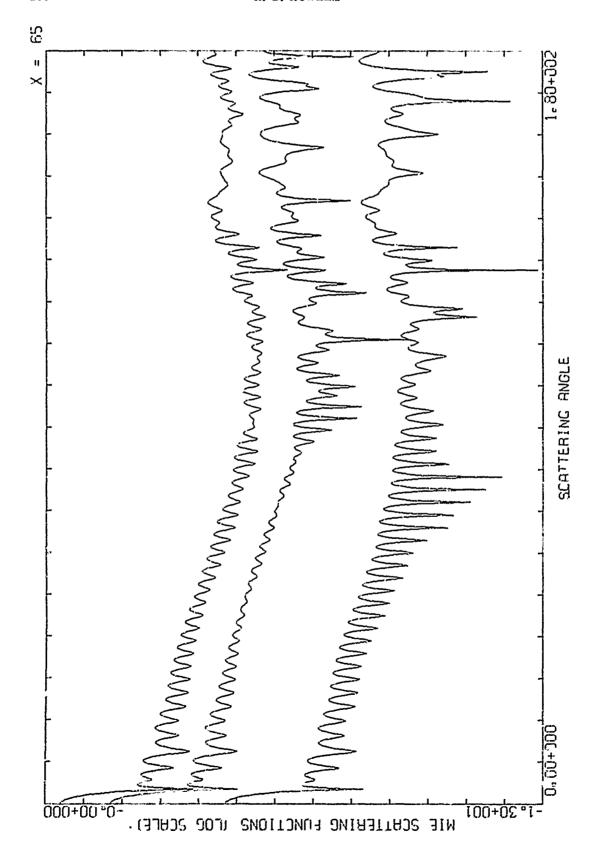


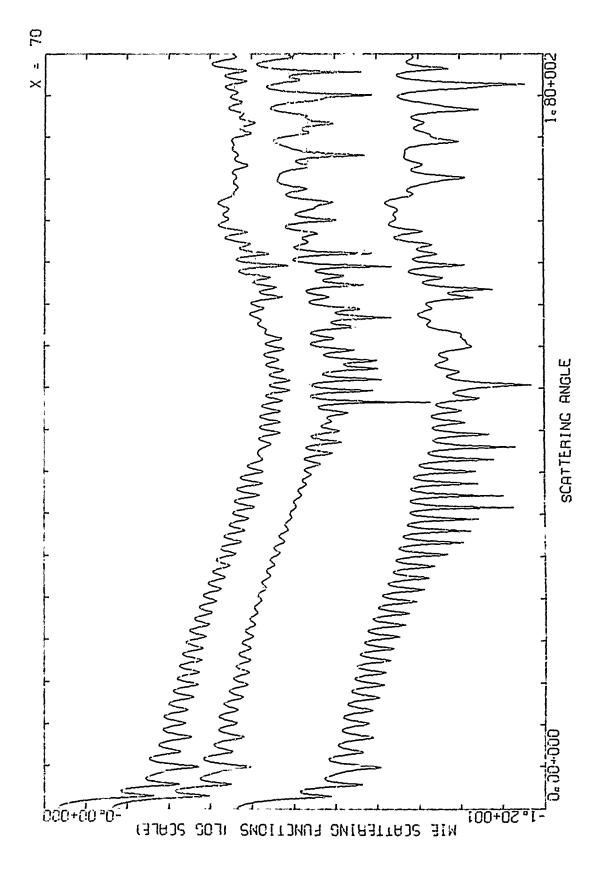


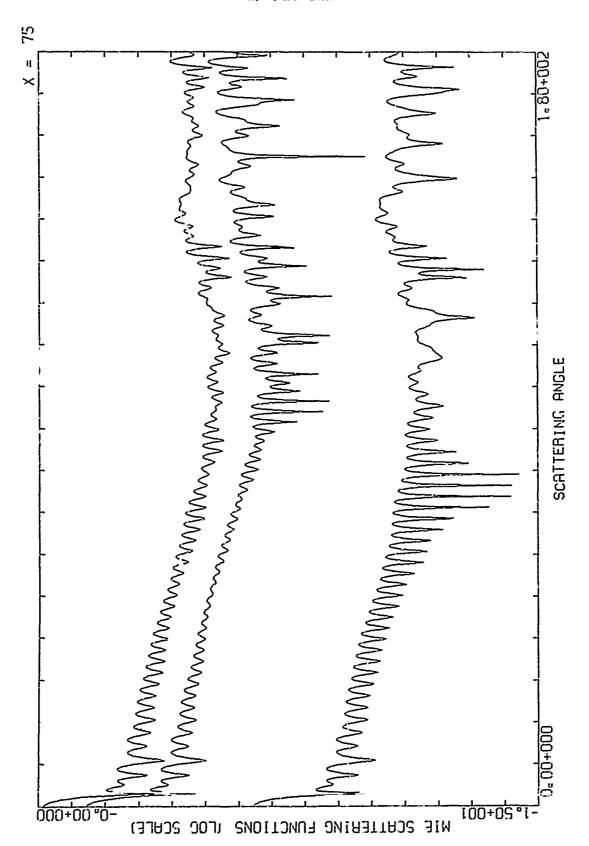










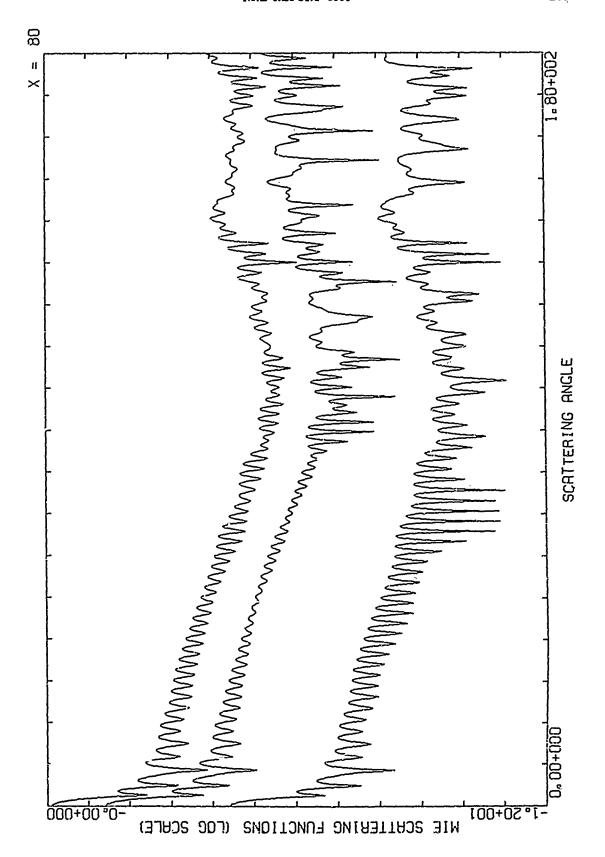


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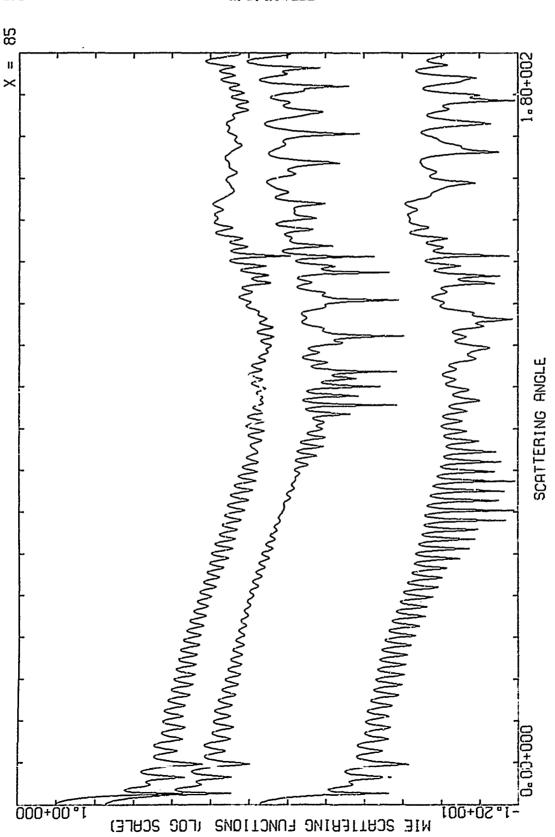
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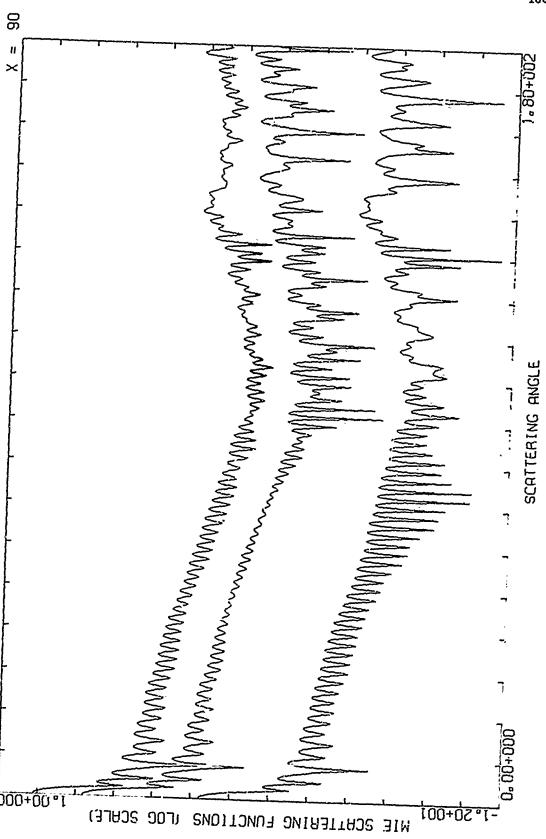


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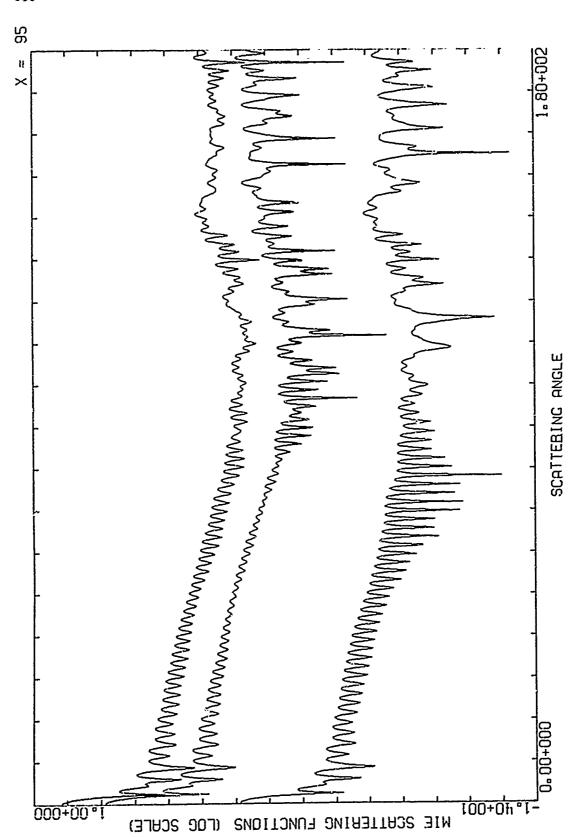


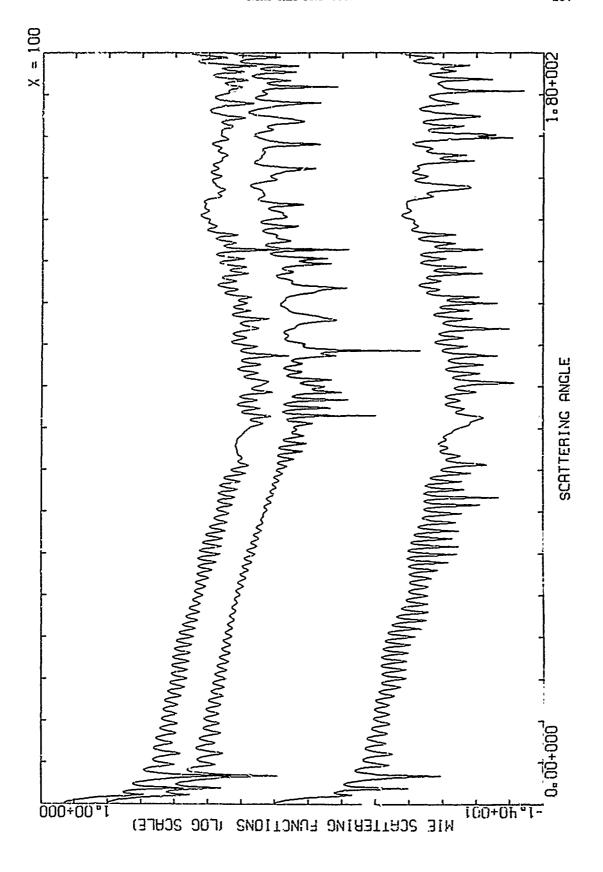


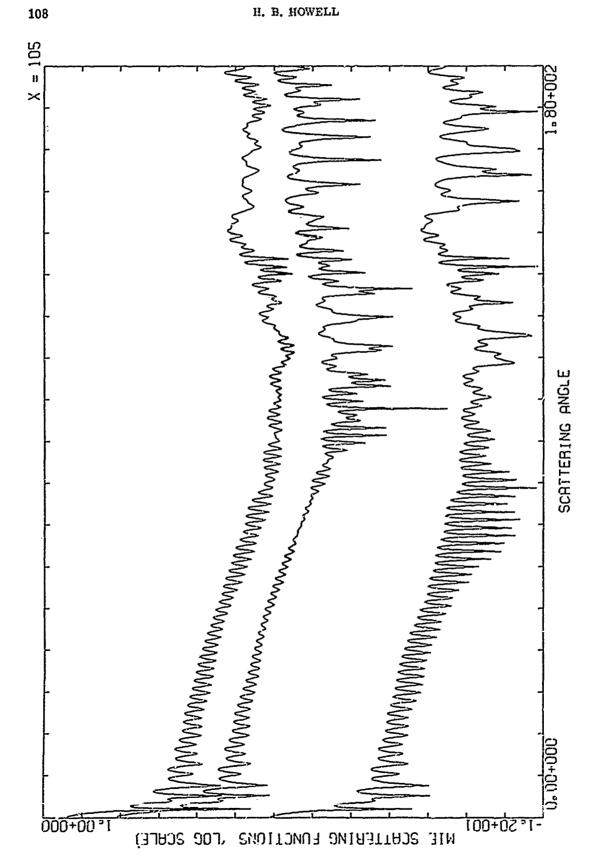


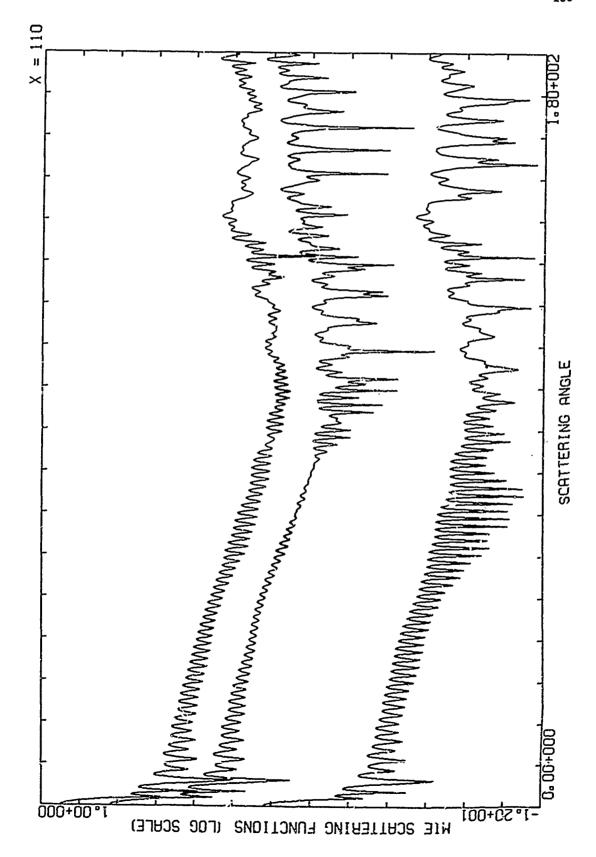


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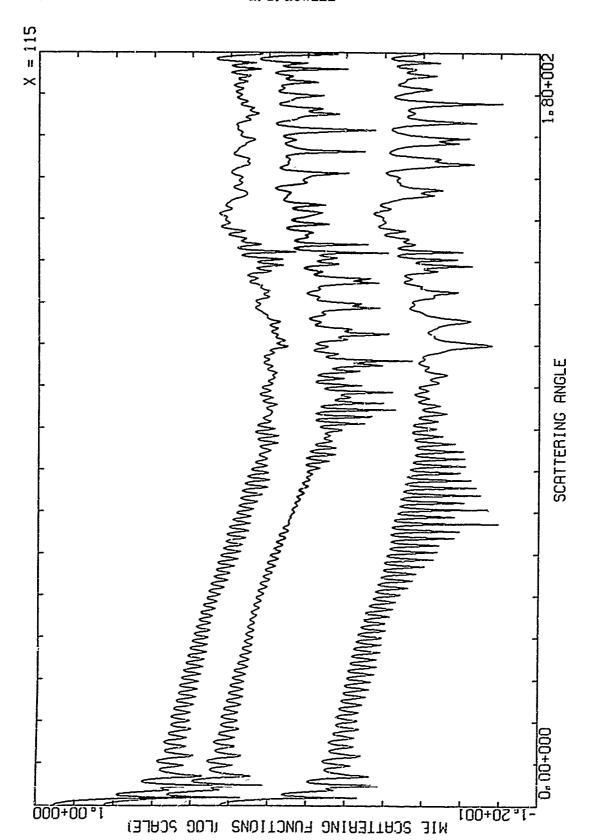


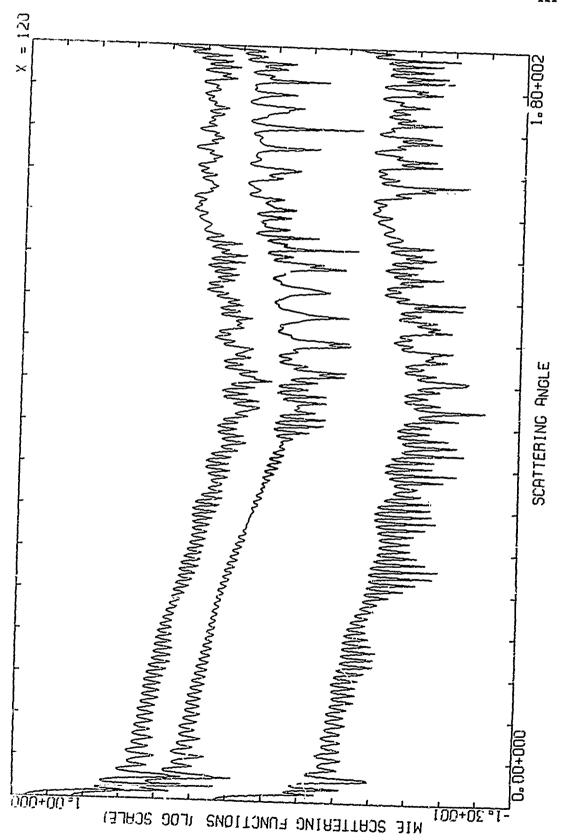


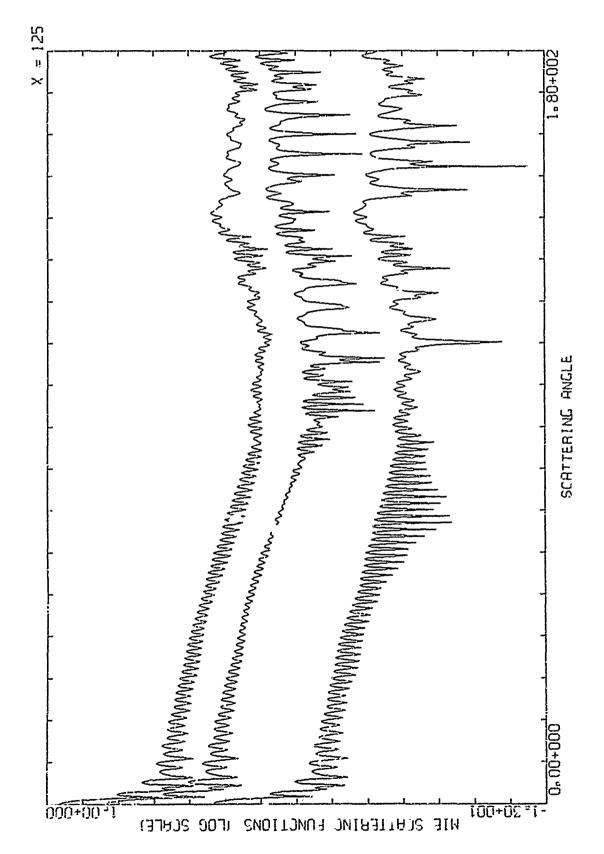




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3 AUTHORISI (First name, middle initial, fast name) H.B. Howell					
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